Product Datasheet

ABCA1 Antibody - BSA Free NB400-105

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.



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NB400-105

ABCA1 Antibody - BSA Free

Product Information		
Unit Size	0.1 ml	
Concentration	1 mg/ml	
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.	
Clonality	Polyclonal	
Preservative	0.02% Sodium Azide	
Isotype	IgG	
Purity	Immunogen affinity purified	
Buffer	PBS	
Target Molecular Weight	220 kDa	
Product Description		
Host	Rabbit	
Gene ID	19	
Gene Symbol	ABCA1	
Species	Human, Mouse, Rat, Porcine, Canine, Chicken, Chinese Hamster, Equine, Hamster, Mustelid, Primate, Rabbit	
Reactivity Notes	Canine reactivity reported in scientific literature (PMID: 24612239). Rabbit reactivity reported in scientific literature (PMID: 26444796). Chinese Hamster reactivity reported in scientific literature (PMID: 27902765). Primate reactivity reported in scientific literature (PMID: 25440061). Equine reactivity reported in scientific literature (PMID: 26711702).	
Immunogen	Partial peptide sequence (within residues 1100-1300) of human ABCA1 Antibody [UniProt# O95477]. Actual immunogen sequence is proprietary information.	
Product Application Details		
Applications	Western Blot, Simple Western, Chromatin Immunoprecipitation, ELISA, Flow Cytometry, Gel Super Shift Assays, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Block/Neutralize, Chromatin Immunoprecipitation (ChIP), Dual RNAscope ISH-IHC, Gel Supershift Assay, Knockdown Validated, Knockout Validated, PCR	
Recommended Dilutions	Western Blot 1:500, Simple Western 1:50, Chromatin Immunoprecipitation reported in scientific literature (PMID 19515742), Flow Cytometry 1:400. Use reported in scientific literature (PMID 21501868), ELISA reported in scientific literature (PMID 18541924), Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:100. Use reported in scientific literature (PMID 21501868), Immunoprecipitation 1:10-1:500. Use reported in scientific literature (PMID 21846716; 21106520), Immunohistochemistry-Paraffin 1:200, Immunohistochemistry-Frozen, Immunoblotting reported in scientific literature (PMID 27599291), Gel Super Shift Assays reported in scientific literature (PMID 15684432), Gel Supershift Assay, Chromatin Immunoprecipitation (ChIP), Knockout Validated reported in scientific literature (PMID 32273567), Knockdown Validated reported in scientific literature (PMID 31666189), Block/Neutralize reported in scientific literature (PMID 30821416), PCR reported in scientific literature (PMID 27406916), Dual RNAscope ISH-IHC	

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Application Notes	Western Blot band representing ABCA1 is observed at approx. 220 kDa. Additional non-specific bands are seen at lower molecular weights, but do not interfere with the ABCA1 signal. In Simple Western only 10-15 uL of the recommended dilution is used per data point. See <u>Simple Western Antibody Database</u> for Simple Western validation: separated by Charge, antibody dilution of 1:50Separated by Charge.
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Images

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Formalin-fixed paraffin-embedded tissue sections of human prostate cancer were probed for ABCA1 mRNA (ACD RNAScope Probe, catalog # 432291; Fast Red chromogen, ACD catalog # 322360). Adjacent tissue section was processed for immunohistochemistry using rabbit polyclonal (Novus Biologicals catalog # NB400-105) at 1.5ug/mL with overnight incubation at 4 degrees Celsius followed by incubation with anti-rabbit IgG VisUCyte HRP Polymer Antibody (Catalog # VC003) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue). Specific staining was localized to glandular cells.	
HSKMCs were transfected with scrambled siRNA (scr siRNA) or ABCA1 siRNA. The cells were lysed and ABCA1 (A) protein levels were quantified by immunoblotting. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41598-018-38014-3) licensed under under a CC-BY license.	A. ABCA1 β-actin 42 kDa 42 kDa 42 kDa 42 kDa 50 50 50 50 50 50 50 50 50 50
Analysis of ABCA1 in total cell lysates of RAW264.9 cells treated with vehicle (-) or 9-cisretinoic acid and 22Rhydroxycholesterol (+). Samples used for this testing were 40 ug of total cell post-nuclear lysate from each group.	<u>kDa</u> - +



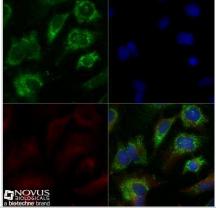
HepG2 cells were grown to 60% confluency, serum starved for 24 hours, and then treated with 1uM TO9 for 24 hours prior to being fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-ABCA1 at 5.0ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

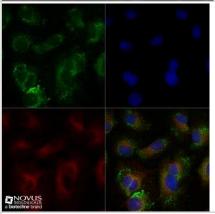
Untreated HepG2 cells were grown to 60% confluency, and serum starved for 24 hours prior to being fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-ABCA1 at 5.0ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

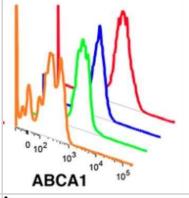
ABCA-1 FITC conjugated antibody of human adipose tissue macrophage subsets by flow cytometry. Image from verified customer review.

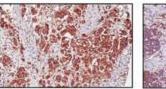
Association between expression of ABCA1 and survival in ovarian cancer patients. Expression of ABCA1 in 55 ovarian cancer patient samples was determined by IHC in tissue microarray. Representative image of ovarian cancer showing high (left panel) and low (right panel) ABCA1 expression on the cell membrane or cytoplasm (x400). Image collected and cropped by CiteAb from the following publication (https://www.clinicalepigeneticsjournal.com/content/7/1/1), licensed under a CC-BY license.

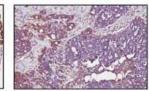




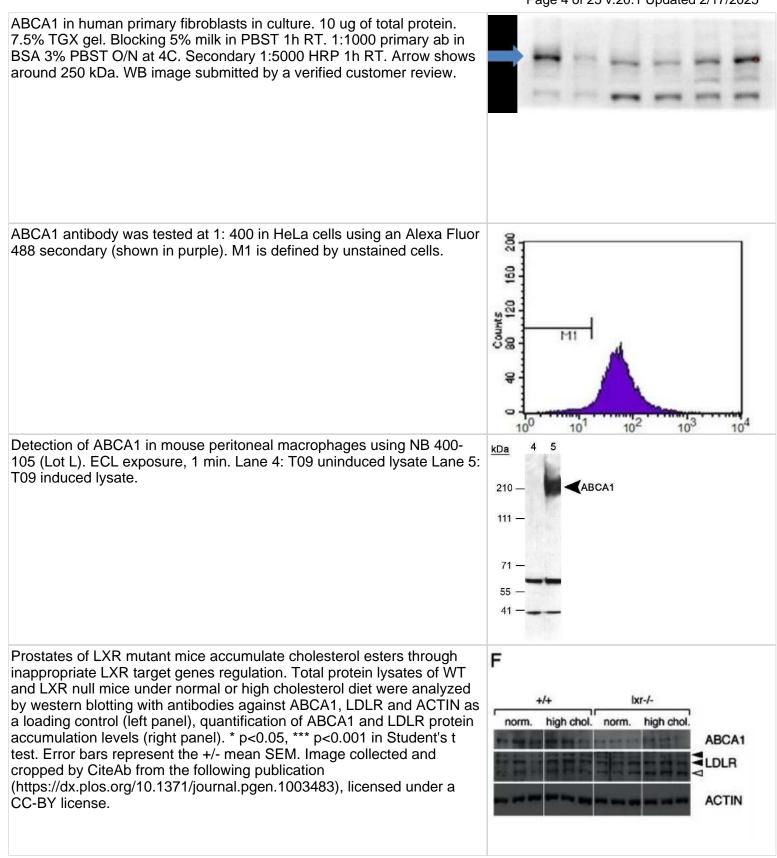




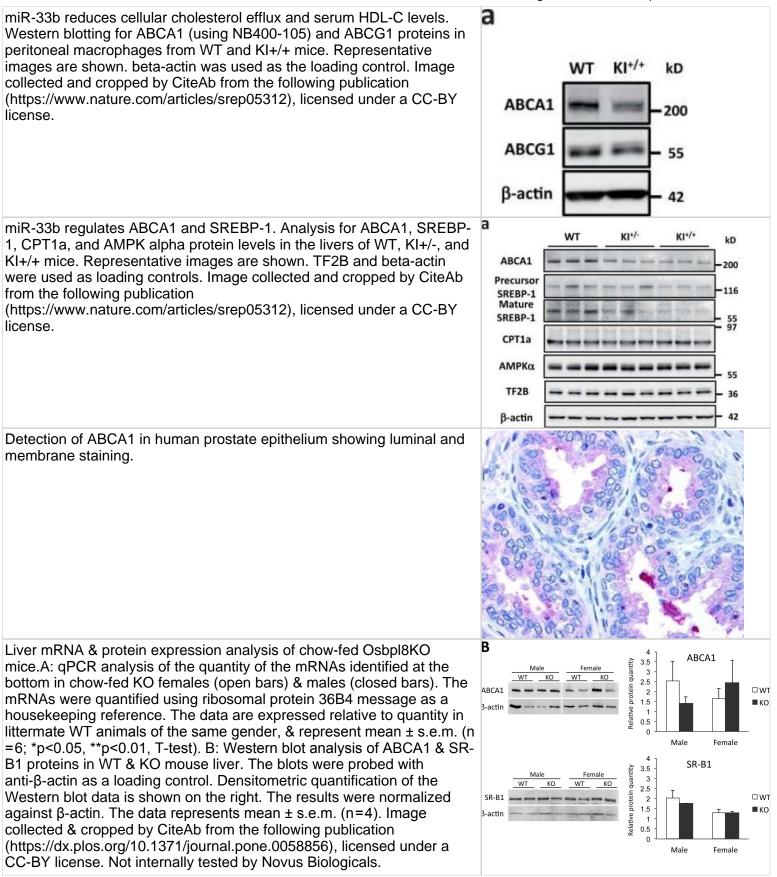




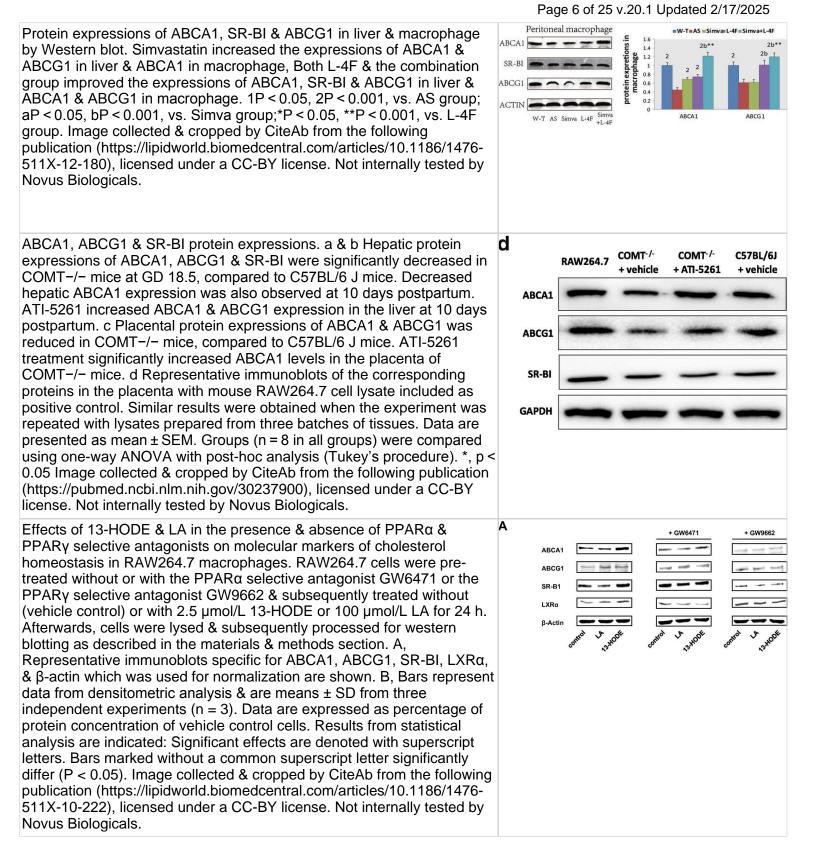
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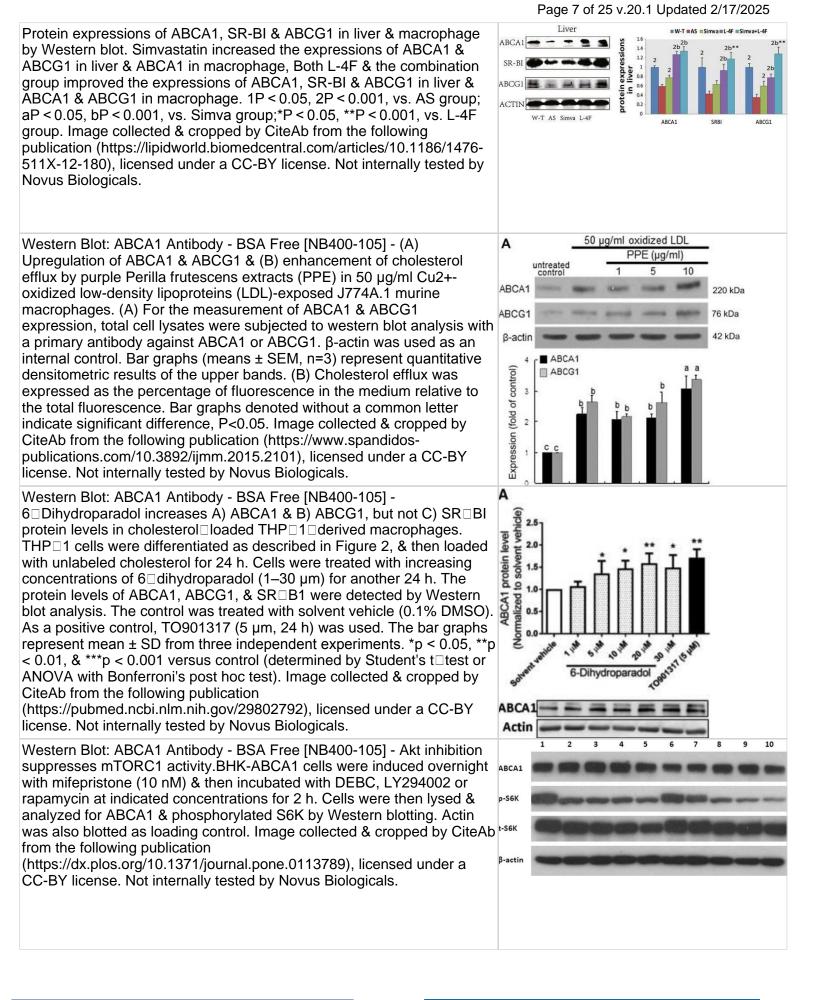














Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Reversal of hepatic steatosis by reduction of SREBP-1 levels.(a) Western blotting analysis of SREBP-1 & ABCA1 levels in livers of miR-33+/+Srebf1+/+, miR-33+/+Srebf1+/-, miR-33-/-Srebf1+/+ & miR-33-/-Srebf1+/- mice. Representative western blot images are shown (n=4). Image collected & cropped by CiteAb from following publication

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Western Blot: ABCA1 Antibody - BSA Free [NB400-105] -6 Dihydroparadol increases A) ABCA1 & B) ABCG1 protein stability. THP 1 cells were differentiated as described in Figure 2. Then cells were loaded with unlabeled cholesterol & treated with 6 dihydroparadol (10 µm), or solvent vehicle (0.1% DMSO, control) for 24 h. Cells were lysed at different time points (0, 1, 2, 3, 4, & 6 h) after treatment with the protein synthesis inhibitor cycloheximide (CHX, 100 µm). The protein levels of both ABCA1 & ABCG1 were detected by Western blot analysis. The data points represent mean \pm SD from three independent experiments. *p < 0.05 & **p < 0.01 versus control at the same time point (determined by Student's t test). Image collected & cropped by CiteAb from the following publication

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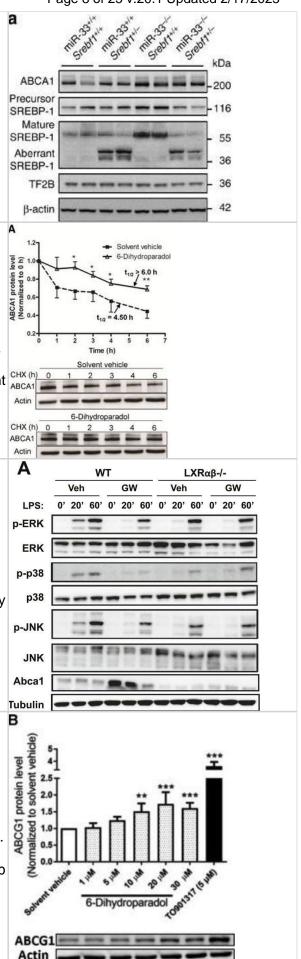
Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Ligand activation of LXR inhibits LPS-induced MAP kinase activation through Abca1 induction.(A–D) Bone marrow-derived macrophages from Lxrα-/ -Lxrβ-/- & control wild-type mice (A, B), or bone marrow-derived macrophages from myeloid-specific Abca1-/- & control wild-type mice (C, D) were pretreated with GW3965 (1 μ M) overnight, followed by stimulation with LPS (10 ng/ml) for 20 min or 1 hr. Whole cell lysates were harvested & protein expression was analyzed by immunoblotting with the indicated antibodies (A, C). Protein expression was quantified by Image Quant TL7.0 (B, D). N = 4–6 per group. *p < 0.05, **p < 0.01, NS, not significant. Error bars represent means ± SEM.DOI:http://dx.doi.org/10.7554/eLife.08009.012 Image collected &

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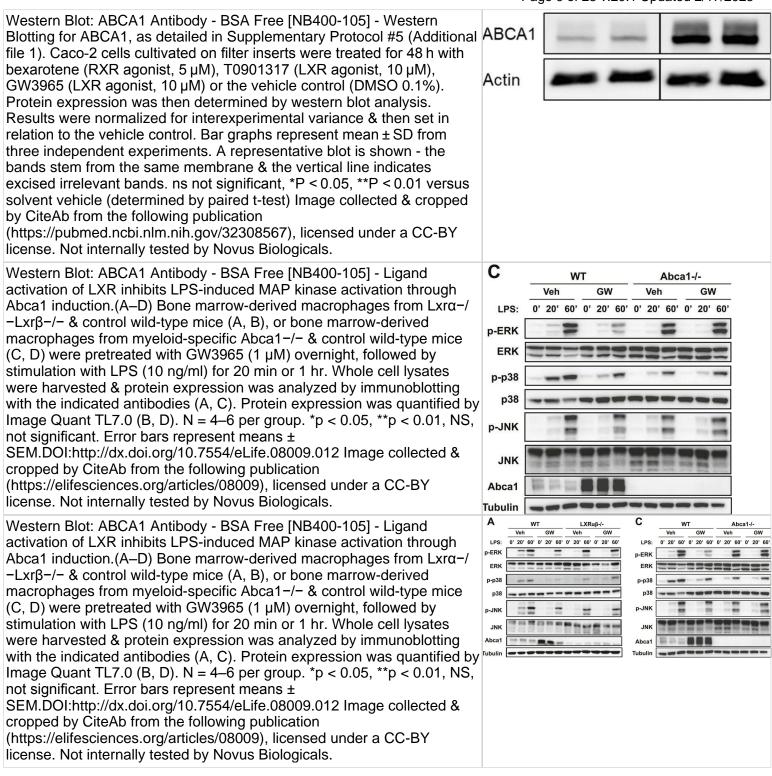
Western Blot: ABCA1 Antibody - BSA Free [NB400-105] -6 Dihydroparadol increases A) ABCA1 & B) ABCG1, but not C) SR Bl protein levels in cholesterol loaded THP 1 derived macrophages. THP 1 cells were differentiated as described in Figure 2, & then loaded with unlabeled cholesterol for 24 h. Cells were treated with increasing concentrations of 6 dihydroparadol (1–30 µm) for another 24 h. The protein levels of ABCA1, ABCG1, & SR B1 were detected by Western blot analysis. The control was treated with solvent vehicle (0.1% DMSO). As a positive control, TO901317 (5 µm, 24 h) was used. The bar graphs represent mean \pm SD from three independent experiments. *p < 0.05, **p < 0.01, & ***p < 0.001 versus control (determined by Student's t test or ANOVA with Bonferroni's post hoc test). Image collected & cropped by CiteAb from the following publication

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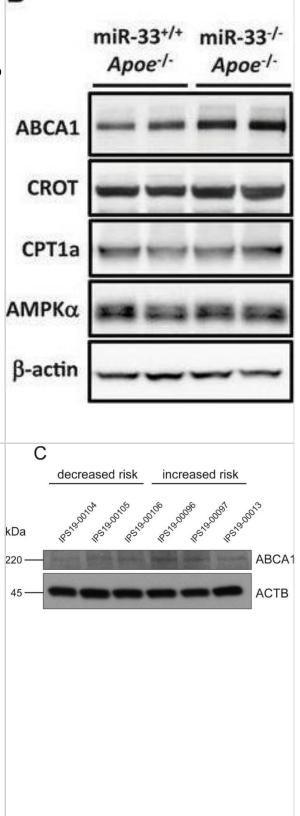
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Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Expression of ABCA1 & CROT in livers & RIP140 in macrophages is elevated in miR-33-/-Apoe-/- mice compared with miR-33+/+Apoe-/- mice. A, Quantitative real-time PCR analysis of Abca1, Crot, Cpt1a, & Prkaa1in livers from miR-33+/+Apoe-/- & miR-33-/-Apoe-/- mice. Values from miR-33+/+Apoe-/- mice were set at 100%. Values are mean±SE (n=9 to 11each); **P<0.01. B, Western analysis of ABCA1, CROT, CPT1a, & AMPKα in livers from miR-33+/+Apoe-/- & miR-33-/-Apoe-/- mice. β-actin was used as a loading control. C, Densitometry of ABCA1, CROT, CPT1a, & AMPKα in livers from miR-33+/+Apoe-/- & miR-33-/ -Apoe-/- mice. Values from miR-33+/+Apoe-/- mice were set at 100%. Values are mean±SE (n=4 each); *P<0.05. D, Total cholesterol, free cholesterol, cholesterol ester, & triglyceride levels in livers of miR-33+/ +Apoe-/- & miR-33-/-Apoe-/- mice. Values are mean±SE (n=9 to 11 each). E, HE staining of livers of miR-33+/+Apoe-/- & miR-33-/-Apoe-/ - mice at age 20 weeks fed NC. Scale bar: 100 µm. F, Quantitative realtime PCR analysis of Nrip1 (RIP140) in peritoneal macrophages from miR-33+/+Apoe-/- & miR-33-/-Apoe-/- mice. Values from miR-33+/ +Apoe-/- mice were set at 100%. Values are mean±SE (n=7 each). G, Western analysis of NRIP1 (RIP140) in peritoneal macrophages from miR-33+/+Apoe-/- & miR-33-/-Apoe-/- mice. GAPDH was used as a loading control, H. Densitometry of NRIP1 (RIP140) in peritoneal macrophages from miR-33+/+Apoe-/- & miR-33-/-Apoe-/- mice. Values from miR-33+/+Apoe-/- mice were set at 100%. Values are mean±SE (n=4 each); *P<0.05. Image collected & cropped by CiteAb from the following publication

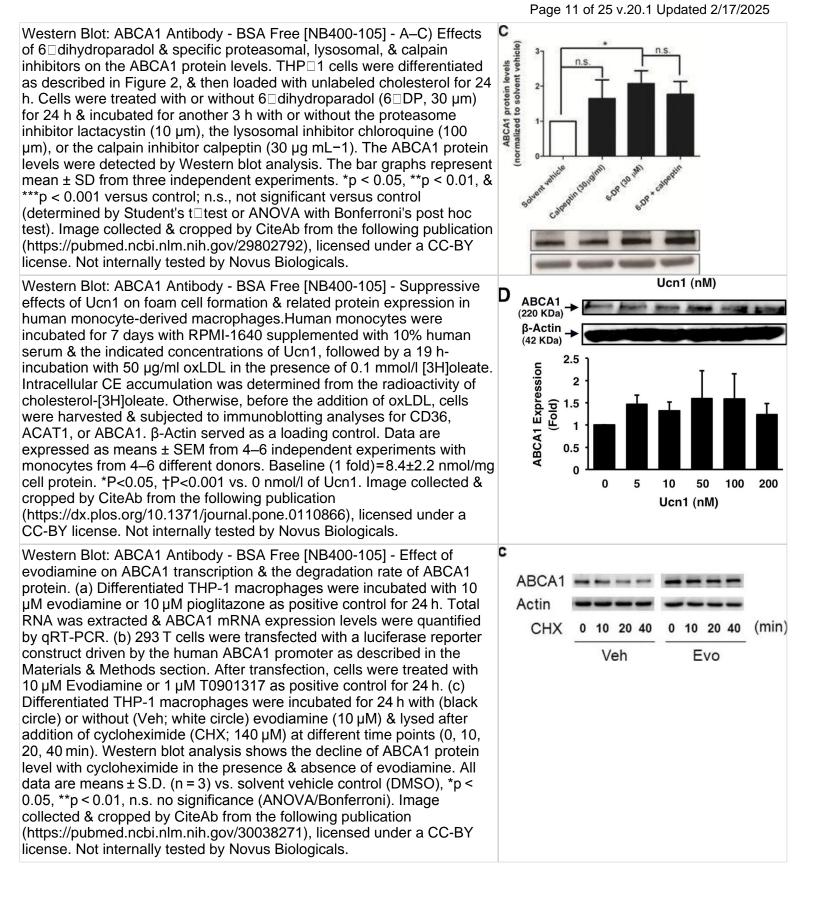
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Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Basal ABCA1 expression & function in patient-derived iRPEs. (A) Representation of patient-derived iPSC lines & genotypes harboring polymorphisms in ABCA1 that are associated with decreased or increased risk for AMD development. (B) Relative expression of ABCA1 mRNA in patientderived iRPEs under basal conditions normalized to RPL28 & decreased risk group. (C) Western blot analysis of ABCA1 levels in patient-derived iRPEs under basal conditions. Actin was detected as loading control. ABCA1 expression was quantified & normalized to actin. (D,E) Relative expression of ABCG1 (D) & NR1H3 (E) mRNA in patient-derived iRPEs under basal conditions normalized to RPL28 & decreased risk group. (F) Cholesterol efflux in patient-derived iRPEs after direct cell labeling & in the presence of ApoAI. (G) Cholesterol efflux in patient-derived iRPEs after phagocytosis of BODIPY-cholesterol-loaded POSs & in the presence of ApoAI. (H) Quantification of phagocytosed POSs per nuclei in patient-derived iRPEs. Values shown are means \pm SD (n = 3). * p < 0.05; *** p < 0.001. Unpaired Student's t-test. (I) Representative fluorescence microscopy images of phagocytosed FITC-labeled POSs (green) & staining for ZO-1 (red) & DAPI (blue) of increased risk cell line IPS19-00096. Scale bar = 100 µm. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35328615), licensed under a CC-BY

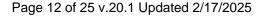
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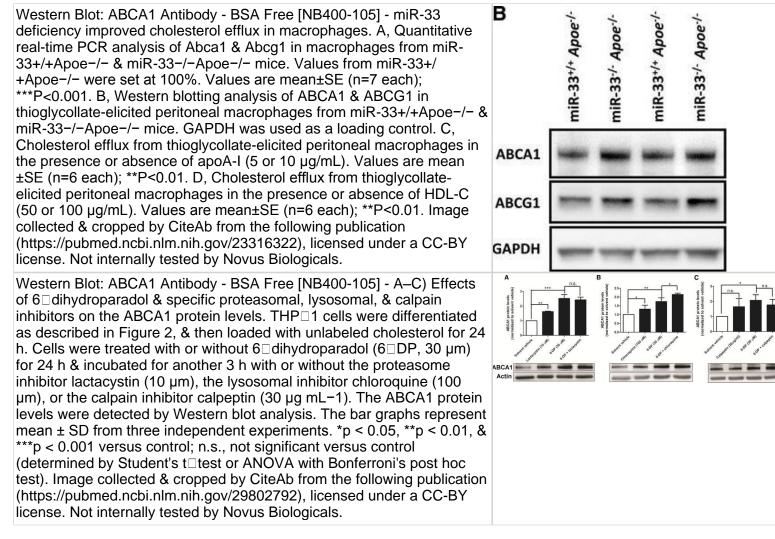










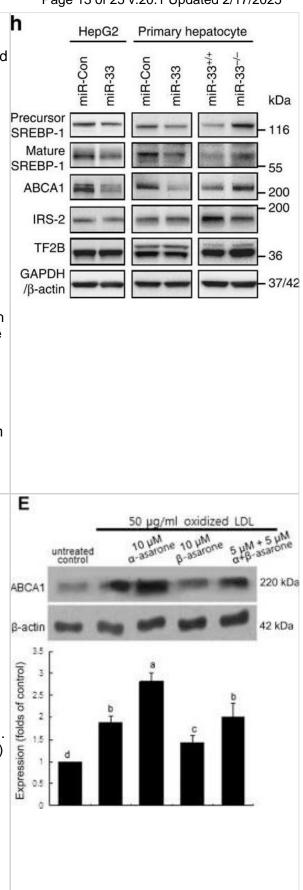




Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Srebf1 is a miR-33 target gene.(a) Relative changes in lipid metabolism-related genes in the livers of miR-33-/- mice compared with miR-33+/+ mice fed NC at 16 weeks of age. (n=5-8 each,*P<0.05 in Student's t-test). (b) Conservation of miR-33 target regions in the 3'UTR of Srebf1. Underlined sequences are the potential binding site of miR-33 seed sequences. * indicates the conservation among spieces. (c) 3'UTR reporter assay used to verify the target. Luciferase reporter activity of human & mouse SREBP-1 gene 3'UTR constructs in 293T cells overexpressing miR-control (miR-Con) & miR-33 (n=4 each, *P<0.05 & ***P<0.001 in Student's t-test). (d) miR-33 dose-dependent changes in luciferase reporter activity of mouse Srebf1 3'UTR construct in 293T cells. miR-Con & miR-146a is used as a negative control (n=4 each, *P<0.05 & ***P<0.001 in one-way analysis of valiance test). (e) Luciferase reporter activity of the WT or mutant Srebf1 3'UTR at the potential miR-33 binding site in 293T cells (n=4 each, **P<0.01 in Student's t-test). (f.g) Luciferase reporter activity of SRE-promoter (f) or FAS-promoter (g) in 293T cells. 293T cells were co-transfected with mouse Srebf1 with the full-length 3'UTR or without the 3'UTR, along with expression plasmids for miR-negative control, or miR-33. Values are the mean±s.e. (n=4 each, **P<0.01 versus miR-Con. ***P<0.001 versus miR-Con in one-way analysis of valiance test). (h) Western blotting analysis of SREBP-1, ABCA1, & IRS-2 in miR-33 transduced HepG2 cells & primary hepatocytes & hepatocytes prepared from miR-33+/+ & miR-33-/- mice. Representative western blot images are shown (n=4). Values are the means±s.e.m. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/24300912), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - (A) Chemical structure, (B) cytotoxicity of α -asarone, (C) enhancement of cholesterol efflux by α -asarone, (D & E) upregulation of ABCA1 & ABCG1 by α-asarone & β-asarone, & (F) elevation of retinoid X receptor (RXR)α transcription. J774A.1 murine macrophages were exposed to 50 µg/ml oxidized low-density lipoprotein (LDL) & treated with 1–10 µM purple Perilla frutescens extracts (PPE)- α -asarone & 5–10 μ M β -asarone. (B) MTT assay was performed for the measurement of α -asarone toxicity. Graph data represent 1 of 4 independent experiments with multiple estimations. Values are expressed as the percentage cell survival relative to the untreated control cells (cell viability, 100%). (C) Cholesterol efflux was expressed as the percentage fluorescence in the medium relative to total fluorescence. (D & E) For the measurement of ABCA1 & ABCG1 expression, total cell lysates were subjected to western blot analysis with a primary antibody against ABCG1 or ABCG1. β -actin was used as an internal control. Bar graphs (means ± SEM, n=3) represent quantitative densitometric results of the upper bands. Bar graphs denoted without a common letter indicate significant difference, P<0.05. (F) RXRα mRNA expression was measured by RT-PCR. GAPDH was used as a housekeeping gene for the co-amplification with RXRa. Image collected & cropped by CiteAb from the following publication (https://www.spandidos-

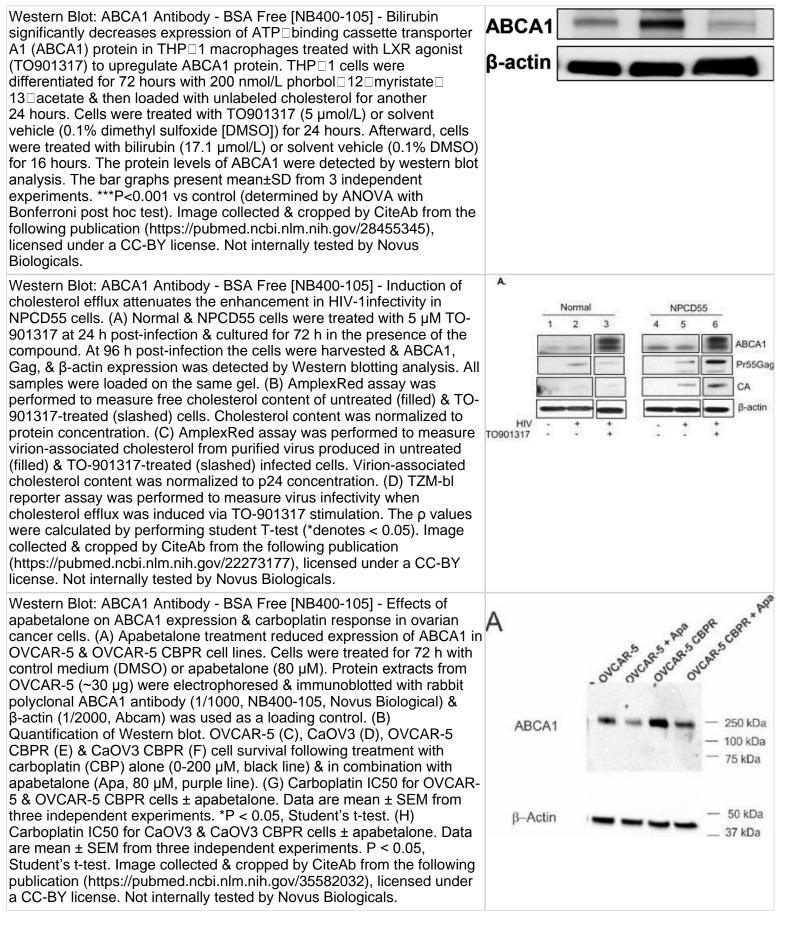
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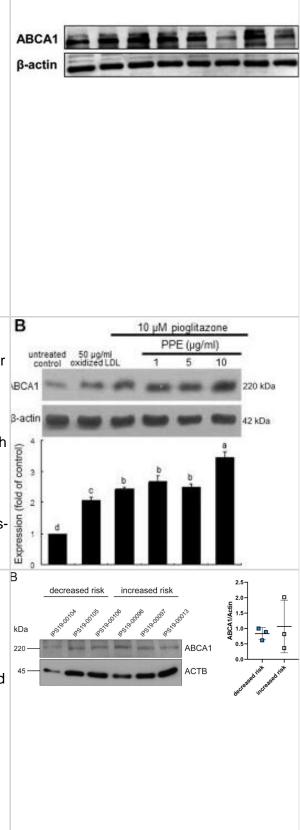




Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Expression of A ATP□binding cassette transporter A1 (ABCA1) protein in THP□1 macrophages treated with bilirubin & in peripheral blood mononuclear cells (PBMCs) from Gilbert syndrome (GS) patients. A, Bilirubin suppresses the expression of ABCA1 protein in THP 1 derived macrophages time dependently. THP 1 cells were differentiated as described in Figure 1 & then loaded with unlabeled cholesterol for another 24 hours. Cells were treated with bilirubin (17.1 µmol/L) for 4, 8, 16, & 24 hours. The protein levels of ABCA1 were detected by western blotting. Control was treated with solvent vehicle (0.1% dimethyl sulfoxide). The bar graph presents mean±SD from 3 independent experiments. B, Expression of ABCA1 protein is decreased in PBMCs from participants with high bilirubin blood levels (GS) compared with healthy controls. The protein levels of ABCA1 were detected by western blotting. The bar graph presents mean \pm SEM (n=28 per group). *P<0.05, **P<0.01 & ***P<0.001 vs control. ns indicates not significant (determined by Student t test). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/28455345), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - (A) Time course response of ABCA1 induction by pioglitazone, & (B) enhancement of ABCA1 & (C) peroxisome proliferator-activated receptor γ (PPAR γ) by purple Perilla frutescens extracts (PPE). J774A.1 murine macrophages were incubated with 10 μ M pioglitazone & 50 μ g/ml oxidized low-density lipoprotein (LDL) in the absence or presence of 1–10 μ g/ml PPE. For the measurement of expression of (A & B) ABCA1 & (C) PPAR γ , total cell lysates were subjected to western blot analysis with a primary antibody against ABCA1 or PPAR γ . β -actin was used as an internal control. Bar graphs (means ± SEM, n=3) represent quantitative densitometric results of the upper bands. Bar graphs denoted without a common letter indicate significant difference, P<0.05. Image collected & cropped by CiteAb from the following publication (https://www.spandidos-publications.com/10.3892/ijmm.2015.2101), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

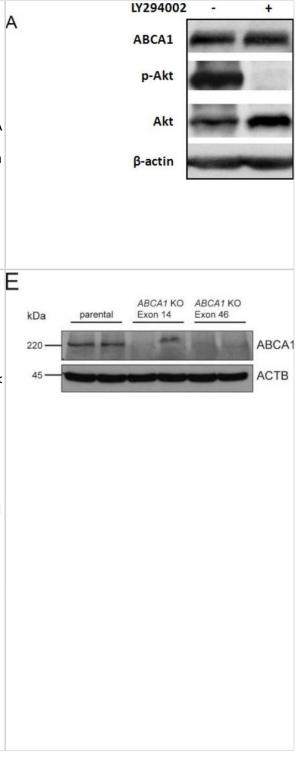
Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - LXR agoniststimulated ABCA1 expression & function in patient-derived iRPEs. Patient-derived iRPE lines were stimulated for 16 h with LXR agonist & are relative to unstimulated cells shown in Figure 2. (A) Expression of ABCA1 mRNA normalized to RPL28 & relative to unstimulated cells shown in Figure 2B. (B) Western blot analysis of ABCA1 protein levels. Actin was detected as loading control. ABCA1 expression was quantified & normalized to actin. (C) Cholesterol efflux assay after direct cell labeling & in the presence of ApoAI. (D) Cholesterol efflux assay after phagocytosis of BODIPY-cholesterol-loaded POSs & in the presence of ApoAI. Data are relative to unstimulated cells shown in Figure 2F,G, respectively. Data are presented as means \pm SD (n = 3). Unpaired Student's t-test. * p < 0.05. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35328615), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



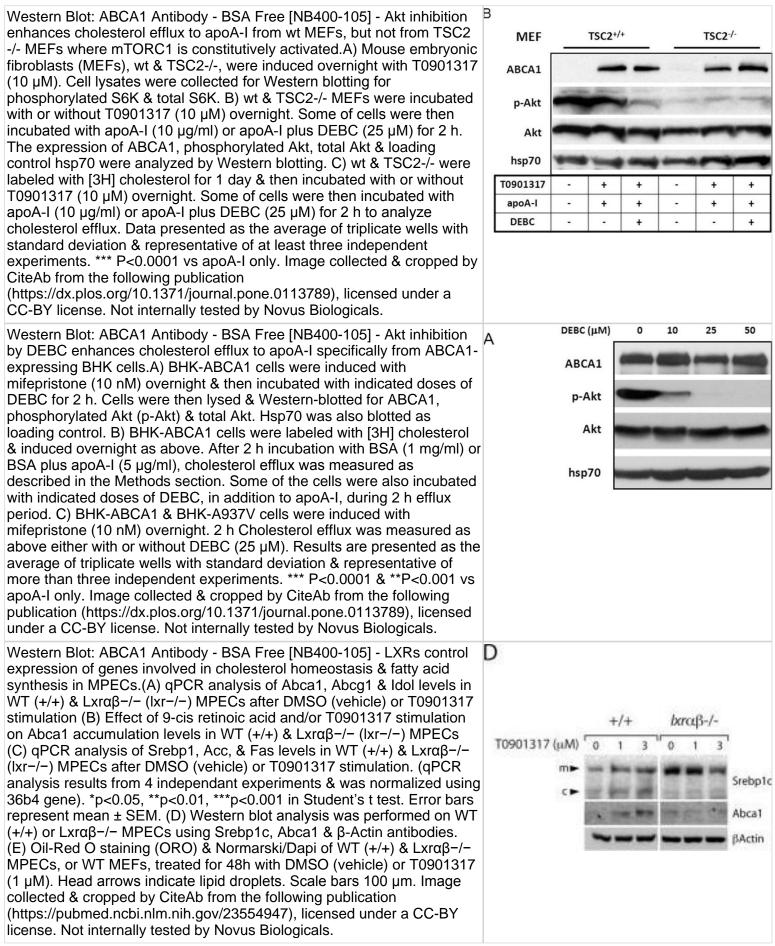


Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Akt inhibition A by LY294002 or Akt1/2 also enhances cholesterol efflux to apoA-I from ABCA1-expressing BHK cells.A) BHK cells were induced as in Fig. 1 & then incubated with LY294002 (200 µM) for 2 h. Cells were then lysed & analysed for ABCA1, phosphorylated Akt (p-Akt) & total Akt by Westernblotting. Hsp70 was also blotted as loading control. B & C) BHK cells were labeled with [3H] cholesterol & induced with 10 nM mifepristone overnight. Cholesterol efflux was measured after 2 h incubation with BSA (1 mg/ml) or BSA plus apoA-I (5 µg/ml). Some of cells were also incubated with indicated doses of LY294002 (B) or Akt1/2 (C), in addition to apoA-I, during 2 h efflux period. Results are presented as the average of triplicate wells with standard deviation & representative of more than three independent experiments. *** P<0.0001, **P<0.001 & *P<0.05 vs apoA-I only. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0113789), licensed under a CC-BY license. Not internally tested by Novus Biologicals. E Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Generation, differentiation & analysis of ABCA1-deficient iRPEs. (A) Immunofluorescence staining for ZO-1 (red) in 4-week cultured iRPEs. Nuclei were stained with DAPI (blue). Scale bar = 100 µm. (B) Brightfield microscopy of iRPEs. (C) Ct values of RPE marker genes BEST1, OTX2, RLBP1 & RPE65 in iRPEs & parental iPSCs obtained by gPCR. Values shown are means \pm SD (n = 3). Unpaired Student's t-test. **** p < 0.0001. (D) Sequence alignment of parts of exon 14 (top) & exon 46 (bottom) of ABCA1-deficient iRPE cell clones & parental line. (E) Western blot of ABCA1 protein levels in ABCA1-deficient iRPE cell lines & parental cell line after 16 h of stimulation with 1 µM LXR agonist. Actin was detected as loading control. (F) Relative expression of ABCA1 mRNA in ABCA1-deficient iRPE cell lines & parental cell line normalized to ACTB. Values shown are means \pm SD (n = 3). One-way ANOVA with Tukev's post hoc test. **** p < 0.0001. (G) Relative expression of ABCG1 mRNA in ABCA1-deficient iRPE cell lines & parental cell line normalized to ACTB. Values shown are means \pm SD (n = 3). One-way ANOVA with Tukey's post hoc test. ** p < 0.01; *** p < 0.001. (H) Cholesterol efflux assay in iRPEs in the presence of ApoAI and/or LXR agonist (LXR ag). Values shown are means \pm SD (n = 3). Two-way ANOVA with Bonferroni post hoc test vs. DMSO + BSA control. **** p < 0.0001. (I) Bright-field (BF) microscopy & Nile Red fluorescence microscopy (overview & closeup view marked with white squares) of 4-week cultured ABCA1-deficient iRPE cell lines & parental cell line. Relative fluorescence was guantified & is shown as mean ± SD (n = 8). One-way ANOVA with Tukey's post hoc test. * p < 0.05, **** p < 0.0001. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35328615), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

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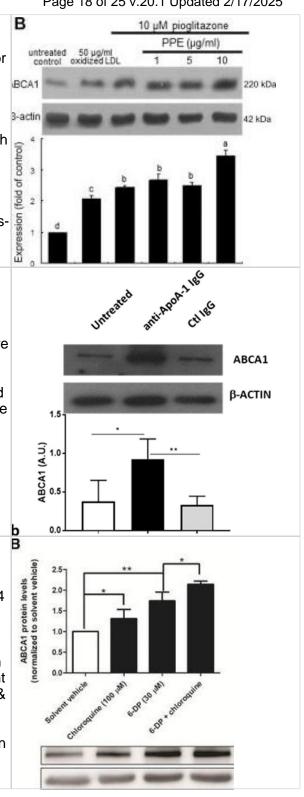




Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - (A) Time course response of ABCA1 induction by pioglitazone, & (B) enhancement of ABCA1 & (C) peroxisome proliferator-activated receptor y (PPARy) by purple Perilla frutescens extracts (PPE). J774A.1 murine macrophages were incubated with 10 µM pioglitazone & 50 µg/ml oxidized low-density lipoprotein (LDL) in the absence or presence of 1-10 µg/ml PPE. For the measurement of expression of (A & B) ABCA1 & (C) PPARy, total cell lysates were subjected to western blot analysis with a primary antibody against ABCA1 or PPARy. β-actin was used as an internal control. Bar graphs (means ± SEM, n=3) represent quantitative densitometric results of the upper bands. Bar graphs denoted without a common letter indicate significant difference, P<0.05. Image collected & cropped by CiteAb from the following publication (https://www.spandidospublications.com/10.3892/ijmm.2015.2101), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Anti-ApoA-1 IgGs upregulate ABCA1. ABCA1 was increased after 16 & 24 h of anti-ApoA-1 IgG exposure to HMDM at the mRNA level as revealed by RT-PCR (a) as well as at the protein level after 24 h anti-apoA-1 IgG stimulation, as revealed by Western blot analysis (b). In panel a, data are expressed as fold change expression of the mean ± SD of ABCA1 calculated by $\Delta\Delta$ CT method of six independent experiments (n = 6) & values were normalized to untreated condition. p-values were calculated using the Student's t-test: * p < 0.05, ** p < 0.01, **** p < 0.0001. (b) One of four representative Western blots is shown. Data are the mean ± SD of band intensity volume/actin intensity volume of four independent experiments (n = 4). p-values were calculated using the Student's t-test: * p = 0.02, ** p = 0.005. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31766415), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - A-C) Effects of 6 dihydroparadol & specific proteasomal, lysosomal, & calpain inhibitors on the ABCA1 protein levels. THP 1 cells were differentiated as described in Figure 2, & then loaded with unlabeled cholesterol for 24 h. Cells were treated with or without $6 \Box$ dihydroparadol ($6 \Box$ DP, 30 µm) for 24 h & incubated for another 3 h with or without the proteasome inhibitor lactacystin (10 µm), the lysosomal inhibitor chloroquine (100 μ m), or the calpain inhibitor calpeptin (30 μ g mL-1). The ABCA1 protein levels were detected by Western blot analysis. The bar graphs represent mean ± SD from three independent experiments. *p < 0.05, **p < 0.01, & ***p < 0.001 versus control; n.s., not significant versus control (determined by Student's t test or ANOVA with Bonferroni's post hoc test). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/29802792), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

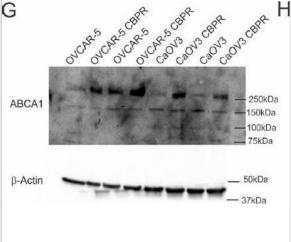


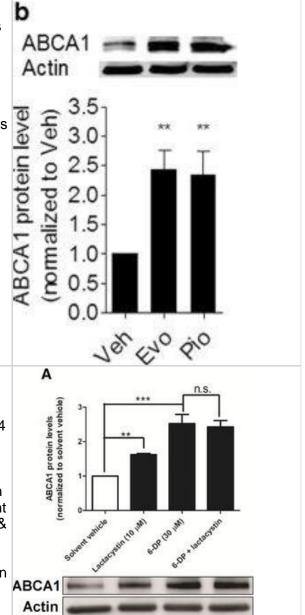


Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - ABCA1 protein expression is upregulated in ovarian cancer cells with acquired carboplatin resistance. ABCA1 expression in OVCAR-5 (A) & CaOV3 (C) & carboplatin resistant OVCAR-5 CBPR (B) & CaOV3 CBPR (D) by immunocytochemistry using rabbit polyclonal ABCA1 antibody (1/100, NB400-105, Novus Biological). (E) OVCAR-5 cells with Rabbit IgG & (F) CaOV3 cells with Rabbit IgG. (G) Protein extracts from OVCAR-5 (~30 μg) & CaOV3 cell lines (~60 μg) were electrophoresed & immunoblotted with rabbit polyclonal ABCA1 antibody (1/1000, NB400-105, Novus Biological), & β-actin (1/2000, Abcam) was used as a loading control. A major band was detected at ~250 kDa, which is the predicted size for ABCA1. (H) Quantitation of ABCA1 Western blots. Data are from 2-4 independent experiments. Statistical significance was determined using the Student's t-test, *P < 0.05. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35582032), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Evodiamine enhances apo A1-mediated ChE from THP-1 macrophages & increases ABCA1 protein level. (a) Differentiated THP-1 cells were loaded with [3H]-cholesterol together with the indicated treatments for 24 h. On the next day, the cells were washed twice with PBS & incubated with the same compounds [solvent vehicle control (Veh; ≤0.1% DMSO), evodiamine $(1-20 \mu M)$, & the PPARy agonist pioglitazone $(10 \mu M)$ as positive control] with or without 10 µg/mL apo A1. Extracellular as well as intracellular radioactivities were quantified with scintillation counter. Differentiated THP-1-derived macrophages were treated with solvent vehicle control (Veh; $\leq 0.1\%$ DMSO), evodiamine (10 μ M), & the PPARy agonist pioglitazone (10 µM) as positive control. After 24 h incubation, the cells were lysed & 20 µg protein was resolved via SDS-PAGE. Immunodetection was performed with antibodies against the indicated proteins, ABCA1 (b), ABCG1 (c), & SR-B1 (d), & visualized by chemiluminescence detection. All experiments were performed at least three times & data are presented as means ± S.D. vs. solvent vehicle control, *p < 0.05, **p < 0.01, ***p < 0.001, n.s. no significance (ANOVA/Bonferroni). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30038271), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - A–C) Effects of 6 dihydroparadol & specific proteasomal, lysosomal, & calpain inhibitors on the ABCA1 protein levels. THP 1 cells were differentiated as described in Figure 2, & then loaded with unlabeled cholesterol for 24 h. Cells were treated with or without 6 dihydroparadol (6 DP, 30 µm) for 24 h & incubated for another 3 h with or without the proteasome inhibitor lactacystin (10 µm), the lysosomal inhibitor chloroquine (100 µm), or the calpain inhibitor calpeptin (30 µg mL-1). The ABCA1 protein levels were detected by Western blot analysis. The bar graphs represent mean \pm SD from three independent experiments. *p < 0.05, **p < 0.01, & ***p < 0.001 versus control; n.s., not significant versus control (determined by Student's t test or ANOVA with Bonferroni's post hoc test). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/29802792), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





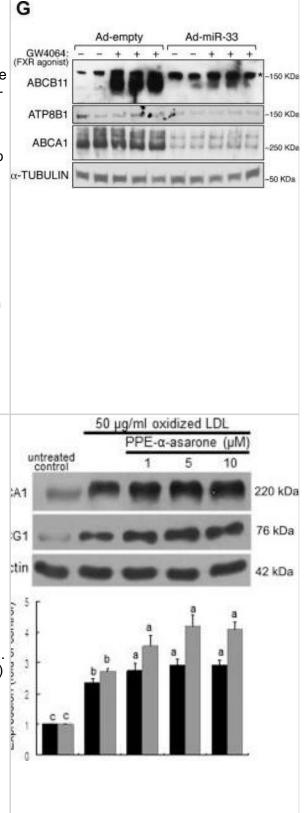


Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Functional miR-33 responsive elements in the 3'UTR of ATP8B1 & ABCB11A,B. Conserved sequences in the 3'UTR of ATP8B1 & ABCB11 are partially complementary to miR-33. The element in human ATP8B1 is located 1877–1897 nt after the stop codon. The element in ABCB11 overlaps the stop codon in primates, while rodents show a conserved sequence 732– 751 nt after the stop codon.C,D. Luciferase assays in HEK293 cells using the whole 3'UTR of human or murine ATP8B1 & ABCB11, or a single copy of the responsive elements (RE) identified above, or mutant responsive elements (RE*; where AATGCA was mutated to GGGTTG to prevent complementarity to the seed sequence of the miRNA), cotransfected with (closed bars) or without (open bars) a vector to overexpress miR-33. In grey, data from empty (negative control) & R33 (positive control containing a 100% match to miR-33) reporter vectors.E,F. Relative mRNA expression of canalicular transporters in primary murine hepatocytes (n = 4 dishes/condition) & human HuH-7 hepatoma cells (n = 3 dishes/condition) transduced 48 h with empty or miR-33 adenovirus.G. Relative protein levels in HuH7 cells transduced with empty or miR-33 adenovirus. Some cells were incubated for 16 h in the presence of FXR:RXR agonists (2 µmol/L GW4064 : 1 µmol/L 9-cisretinoic acid) to induce ABCB11. Asterisk indicates a non-specific band. Data shown as mean \pm SD; **p < 0.01. Image collected & cropped by CiteAb from the following publication

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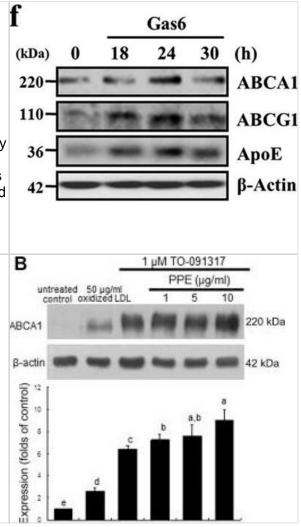
Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - (A) Chemical structure, (B) cytotoxicity of α -asarone, (C) enhancement of cholesterol efflux by α -asarone, (D & E) upregulation of ABCA1 & ABCG1 by α-asarone & β-asarone, & (F) elevation of retinoid X receptor (RXR)α transcription. J774A.1 murine macrophages were exposed to 50 µg/ml oxidized low-density lipoprotein (LDL) & treated with 1–10 µM purple Perilla frutescens extracts (PPE)- α -asarone & 5–10 μ M β -asarone. (B) MTT assay was performed for the measurement of α -asarone toxicity. Graph data represent 1 of 4 independent experiments with multiple estimations. Values are expressed as the percentage cell survival relative to the untreated control cells (cell viability, 100%). (C) Cholesterol efflux was expressed as the percentage fluorescence in the medium relative to total fluorescence. (D & E) For the measurement of ABCA1 & ABCG1 expression, total cell lysates were subjected to western blot analysis with a primary antibody against ABCG1 or ABCG1. β -actin was used as an internal control. Bar graphs (means ± SEM, n=3) represent quantitative densitometric results of the upper bands. Bar graphs denoted without a common letter indicate significant difference, P<0.05. (F) RXRα mRNA expression was measured by RT-PCR. GAPDH was used as a housekeeping gene for the co-amplification with RXRa. Image collected & cropped by CiteAb from the following publication (https://www.spandidos-

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Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - Gas6 treatment enhances expression of LXRa & LXRB & their target genes in BMDM.Mouse BMDM were stimulated with 400 ng/ml Gas6, 1 µM (kDa) T0901317, 10 ng/ml interferon (IFN)-y, 10 ng/ml IL-4, or 100 ng/ml LPS for 4 h (a,b) or 400 ng/ml Gas6 for the indicated times (c–g). (a,b,e) The 220 amounts of the LXRα, LXRβ, ABCA1, ABCG1, ApoE, AIM, Arg2, VEGF, YM1, & Arg1 mRNAs were analyzed by real-time PCR & normalized to 110 that of Hprt mRNA. (c,d,f,g) The relative abundances of LXR α , LXR β , ABCA1, ABCG1, ApoE, Aim, Arg2, & VEGF proteins were determined by 36 Western blotting analysis. The relative densitometric intensity was determined for each band & normalized to β -actin. Data in all bar graphs are means ± SEM of three independent experiments. *P < 0.05 compared with control. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/27406916), licensed under a CC-BY license. Not internally tested by Novus Biologicals. Western Blot: ABCA1 Antibody - BSA Free [NB400-105] - (A) Time в course response of ABCA1 induction by TO-091317 & (B) upregulation of ABCA1 by purple Perilla frutescens extracts (PPE), & (C) enhancement of liver X receptor (LXR)α induction by PPE. J774A.1 ABCA1 murine macrophages were cultured with 1 µM TO-091317 or 50 µg/ml Cu2+-oxidized low-density lipoprotein (LDL) in the absence or presence of 1–10 μ g/ml PPE. For the measurement of expression of (A & B) **B**-actin ABCA1 & (C) LXRa, total cell lysates were subjected to western blot 12 control) analysis with a primary antibody against ABCA1 or LXR α . β -actin was 10 used as an internal control. Bar graphs (means ± SEM, n=3) represent quantitative densitometric results of the upper bands. Bar graphs 5 denoted without a common letter indicate significant difference, P<0.05. 6 Image collected & cropped by CiteAb from the following publication (https://www.spandidos-publications.com/10.3892/ijmm.2015.2101), 4 licensed under a CC-BY license. Not internally tested by Novus 2



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Publications

Fabiano M, Oikawa N, Kerksiek A, Furukawa JI et AI. Presenilin Deficiency Results in Cellular Cholesterol Accumulation by Impairment of Protein Glycosylation and NPC1 Function Int J Mol Sci 2024-05-25 [PMID: 38791456]

Carneiro de Oliveira K, Wei Y, Repetti RL, Meth J et Al. Tubular deficiency of ABCA1 augments cholesterol- and Na (+)-dependent effects on systemic blood pressure in male mice Am J Physiol Renal Physiol 2023-12-28 [PMID: 38153852]

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Ma C, Feng K, Yang X, et al. Targeting macrophage liver X receptor by hydrogel-encapsulated T0901317 reduces atherosclerosis without effect on hepatic lipogenesis British journal of pharmacology 2021-01-28 [PMID: 33506494]

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B Fuenzalida, C Cantin, S Kallol, L Carvajal, V Pastén, S Contreras-, C Albrecht, J Gutierrez, A Leiva Cholesterol uptake and efflux are impaired in human trophoblast cells from pregnancies with maternal supraphysiological hypercholesterolemia Sci Rep, 2020-03-24;10(1):5264. 2020-03-24 [PMID: 32210256]

Stefanie Steinbauer, Alice König, Cathrina Neuhauser, Bettina Schwarzinger, Herbert Stangl, Marcus Iken, Julian Weghuber, Clemens Röhrl Elder (Sambucus nigra), identified by high-content screening, counteracts foam cell formation without promoting hepatic lipogenesis Scientific Reports 2024-02-12 [PMID: 38347122]

Soo-Ho Choi, Keun-Young Kim, Guy A. Perkins, Sébastien Phan, Genea Edwards, Yining Xia, Jungsu Kim, Dorota Skowronska-Krawczyk, Robert N. Weinreb, Mark H. Ellisman, Yury I. Miller, Won-Kyu Ju AIBP protects retinal ganglion cells against neuroinflammation and mitochondrial dysfunction in glaucomatous neurodegeneration Redox Biology 2020-08-27 [PMID: 32896719]

Juan Vladimir de la Rosa, Carlos Tabraue, Zhiqiang Huang, Marta C. Orizaola, Patricia Martin ☐ Rodríguez, Knut R. Steffensen, Juan Manuel Zapata, Lisardo Boscá, Peter Tontonoz, Susana Alemany, Eckardt Treuter, Antonio Castrillo Reprogramming of the LXRα Transcriptome Sustains Macrophage Secondary Inflammatory Responses Advanced Science 2024-03-28 [PMID: 38549193]

Eva Tsaousidou, Jędrzej Chrzanowski, Pascal Drané, Grace Y Lee, Nadine Bahour, Zeqiu Branden Wang, Shijun Deng, Zhe Cao, Kaimeng Huang, Yizhou He, Mateusz Kaminski, Dominika Michalek, Ekin Güney, Kalindi Parmar, Wojciech Fendler, Dipanjan Chowdhury, Gökhan S Hotamışlıgil Endogenous p53 inhibitor TIRR dissociates systemic metabolic health from oncogenic activity. Cell reports 2024-07-01 [PMID: 38861384]

More publications at http://www.novusbio.com/NB400-105



Procedures

Western Blot protocol for ABCA1 Antibody (NB400-105)

RAW macrophages were treated with 9-cis-retinoic acid and 22R-hydroxycholesterol, known inducers of ABCA1 expression in macrophages. The total cell post-nuclear lysate (40ug protein) was separated by SDS-PAGE and detected using a 1:1000 dilution of NB400-105 affinity purified ABCA1 antibody incubated for 1 hour at room temperature. ABCA1 has been found to run as 3 bands by many researchers; this is probably due to protein modifications such as glycosylation.

NOTE: An important factor in detecting ABCA1 is in the cell type used. ABCA1 is expressed in very low levels in most cell types. Therefore, ABCA1 expression needs to be induced by using 22-hydroxycholesterol and 9-cis-retinoic acid as ligands for the transcription factor LXR.

1. Without heating at all (leave at room temp for about 15 to 20 minutes with Beta-mercaptoethanol), load 40 ug postnuclear lysates* to 7.5% or 4-15% Tris-HCL SDS gel (Bio-RAD) in sample buffer. Do NOT boil the samples. (NP-40 will not interfere with the running of the protein on SDS-PAGE.)

2. Transfer to nitrocellulose membrane at 100V 1hr or 30V overnight.

- 3. Block membrane in 5% milk in TBS-T for at least 1 hr. Wash with TBS-T 5 minutes.
- 4. Blot with anti-ABCA1 antibody in 3% milk in TBS-T for 1 hour.
- 5. Wash with TBS-T 3 times, 10 minutes each.
- 6. Blot with anti-rabbit secondary according to the recommended dilutions in 3% milk in TBS-T for 1 hour.
- 7. Wash with TBS-T 3 times, 10 minutes each.
- 8. Detect with chemiluminescent reagent (Pierce).
- 9. Image

TBS-T: Tris-buffered-saline with Tween-20

See also the specific references mentioned in the datasheet. *Post-nuclear lysate is the result of sonication or dounce homogenization of lysate, centrifugation at low-speed, and the removal of nuclei. The resulting supernatant is called post-nuclear and contains cytosolic and membrane proteins without any of the nuclear components.

Immunohistochemistry-Paraffin protocol for ABCA1 Antibody (NB400-105) ABCA1 Antibody:

Immunohistochemistry-Formalin Fixed Paraffin Embedded sections

I. Deparaffinization:

A. Treat slides with Xylene: 3 changes for 5 minutes each. Drain slides for 10 seconds between changes.

B. Treat slides with 100% Reagent Alcohol: 3 changes for 5 minutes each. Drain slides for 10 seconds between changes.

II. Quench Endogenous Peroxidase:

A. Place slides in peroxidase guenching solution: 15-30 minutes.

To Prepare 200 ml of Quenching Solution:

-Add 3 ml of 30% Hydrogen Peroxide to 200 ml of Methanol.

-Use within 4 hours of preparation

B. Place slides in distilled water: 2 changes for 2 minutes each.

III. Retrieve Epitopes:

A. Preheat Citrate Buffer. Place 200 ml of Citrate Buffer Working Solution into container, cover and place into steamer. Heat to 90-96 degrees C.

B. Place rack of slides into hot Citrate Buffer for 20 minutes. Cover.

- C. Carefully remove container with slides from steamer and cool on bench, uncovered, for 20 minutes.
- D. Slowly add distilled water to further cool for 5 minutes.
- E. Rinse slides with distilled water. 2 changes for 2 minutes each.

IV. Immunostaining Procedure:

A. Remove each slide from rack and circle tissue section with a hydrophobic barrier pen (e.g. Liquid Blocker-Super Pap Pen).

B. Flood slide with Wash Solution. Do not allow tissue sections to dry for the rest of the procedure.



C. Drain wash solution and apply 4 drops of Blocking Reagent to each slide and incubate for 15 minutes.

D. Drain Blocking Reagent (do not wash off the Blocking Reagent), apply 200 ul of Primary Antibody solution to each slide, and incubate for 1 hour.

E. Wash slides with Wash Solution: 3 changes for 5 minutes each.

F. Drain wash solution, apply 4 drops of Secondary antibody to each slide and incubate for 1 hour.

G. Wash slides with Wash Solution: 3 changes for 5 minutes each.

H. Drain wash solution, apply 4 drops of DAB Substrate to each slide and develop for 5-10 minutes. Check development with microscope.

I. Wash slides with Wash Solution: 3 changes for 5 minutes each.

J. Drain wash solution, apply 4 drops of Hematoxylin to each slide and stain for 1-3 minutes. Increase time if darker counterstaining is desired.

K. Wash slides with Wash Solution: 2-3 changes for 2 minutes each.

L. Drain wash solution and apply 4 drops of Bluing Solution to each slide for 1-2 minutes.

M. Rinse slides in distilled water.

N. Soak slides in 70% reagent alcohol: 3 minutes with intermittent agitation.

O. Soak slides in 95% reagent alcohol: 2 changes for 3 minutes each with intermittent agitation.

P. Soak slides in 100% reagent alcohol: 3 changes for 3 minutes each with intermittent agitation. Drain slides for 10 seconds between each change.

Q. Soak slides in Xylene: 3 changes for 3 minutes each with intermittent agitation. Drain slides for 10 seconds between each change.

R. Apply 2-3 drops of non-aqueous mounting media to each slide and mount coverslip.

S. Lay slides on a flat surface to dry prior to viewing under microscope.

NOTES:

-Use treated slides (e.g. HistoBond) to assure adherence of FFPE sections to slide.

-Prior to deparaffinization, heat slides overnight in a 60 degrees C oven.

-All steps in which Xylene is used should be performed in a fume hood.

For Epitope Retrieval, a microwave or pressure cooker may be substituted for the steamer method. Adjust times as necessary depending on conditions.

-For the initial IHC run with a new primary antibody, test tissues with and without Epitope Retrieval. In some instances, Epitope Retrieval may not be necessary.

-200 ul is the recommended maximum volume to apply to a slide for full coverage. Using more than 200 ul may allow solutions to wick off the slide and create drying artifacts. Small tissue sections less than 200 ul may be used.
-5 minutes of development with DAB Substrate should be sufficient. Do not develop for more than 10 minutes. If 5 minutes of development causes background staining, further dilution of the primary antibody may be necessary.

Hematoxylin should produce a light nuclear counterstain so as not to obscure the DAB staining. Counterstain for 1-1.5 minutes for nuclear antigens. Counterstain for 2-3 minutes for cytoplasmic and membranous antigens. If darker counterstaining is desired increase time (up to 10 minutes).





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Products Related to NB400-105

NBP1-30159	Raw 264.7 Whole Cell - T0901317 treated Assay Kit
NB400-105PEP	ABCA1 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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