

Product Datasheet

ATG10 Antibody - BSA Free

NBP2-38524

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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NBP2-38524

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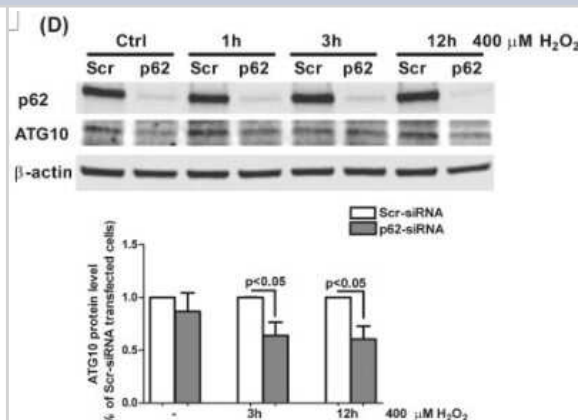
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	83734
Gene Symbol	ATG10
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28222108).
Immunogen	This antibody was developed against a recombinant protein corresponding to amino acids: IGDSWEWRPSKDCSDGYMCKIHFQIKNGSVMSHLGASTHGQTCLPMEEAFEL PLDDCEVIETAAASEVIKYEYHVLYSCSYQVPVLYFRASFLDGRPLTLKDIWEGV HECYKM

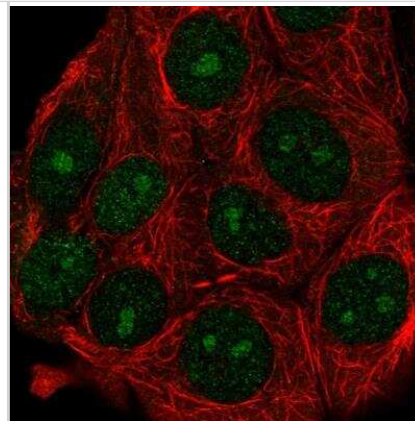
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200, Knockdown Validated Validated for Knockdown from CiteAb
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100. Western Blot reactivity reported in (PMID: 28222108).

Images

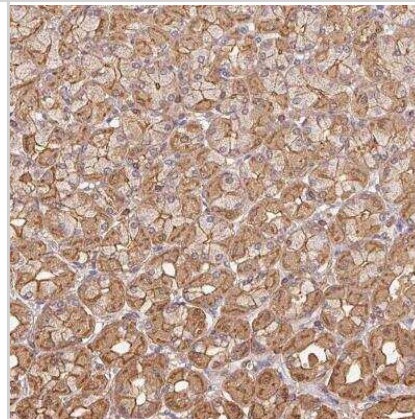
Western Blot: ATG10 Antibody [NBP2-38524] - ATG10 is involved in p62-regulated autophagy. RPE cells were transfected with p62 or scrambled siRNA for 24h and then exposed with 400 H₂O₂ for 1, 3, 6, 12h respectively. Whole-cells lysates were analyzed by Western blot with anti-p62, ATG10, or beta-actin antibodies. Differences between means were considered statistically significant when $p < 0.05$ by Mann-Whitney U-test. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0171940>), licensed under a CC-BY license.



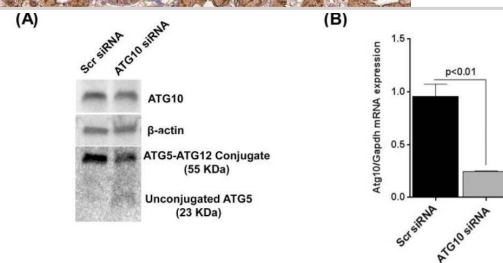
Immunocytochemistry/Immunofluorescence: ATG10 Antibody [NBP2-38524] - Immunofluorescent staining of human cell line MCF7 shows localization to nucleus & nucleoli. Antibody staining shown in green.



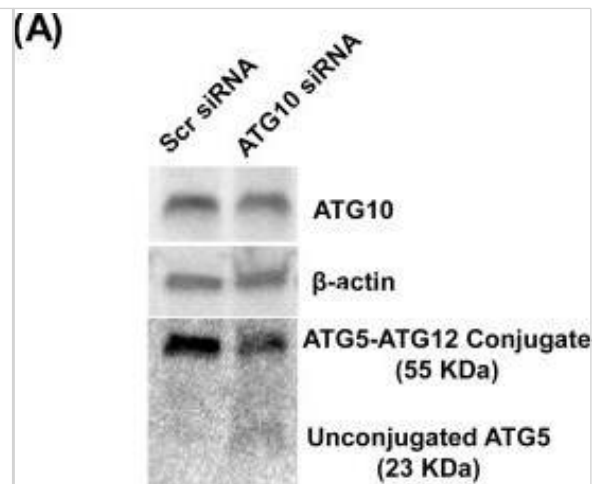
Immunohistochemistry-Paraffin: ATG10 Antibody [NBP2-38524] - Staining of human stomach shows moderate membranous and cytoplasmic positivity in glandular cells.



Western Blot: ATG10 Antibody [NBP2-38524] - ARPE-19 cells were transfected with pooled ATG10 specific siRNAs or scrambled siRNA (30nM) for 24h. ATG10 and ATG5 levels were assessed in protein lysates by Western Blot. (B) RNA isolated from cells was analyzed for ATG10 mRNA expression by qRT-PCR. Differences between means were considered statistically significant when $p < 0.05$ by Mann-Whitney U-test. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28222108/>), licensed under a CC-BY license.



Western Blot: ATG10 Antibody [NBP2-38524] - Knockdown of ATG10 makes ARPE-19 cells more sensitive to H₂O₂. (A) ARPE-19 cells were transfected with pooled ATG10 specific siRNAs or scrambled siRNA (30nM) for 24h. ATG10 & ATG5 levels were assessed in protein lysates by Western Blot. (B) RNA isolated from cells was analyzed for ATG10 mRNA expression by qRT-PCR. Differences between means were considered statistically significant when $p < 0.05$ by Mann-Whitney U-test. (C) Lysates of ARPE-19 cells transfected with siRNAs for 24 hours were assessed for p62 & LC3 levels by Western blot. One set of wells per experiment was exposed to Bafilomycin A1 (75nM) for 3h prior to harvest. β -actin was used as an internal control. 'Short' & 'Long' Exposure indicate time of exposure of immunoblot image. (D) 24h after transfection with respective siRNAs, ARPE-19 were subjected to oxidative stress with 800 μ M H₂O₂ & incubated at 37°C for 6h. Total cell numbers were determined by trypsinization & counting on TC10® cell counter. (E) Primary fetal RPE cells were transfected with scrambled or pooled ATG10 specific siRNAs & 48 hours after transfection, were subjected to H₂O₂ for 24 hours & MTT assay was performed. Differences between means were considered statistically significant when $p < 0.05$ by Student's t-test. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28222108>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Stavoe AK, Gopal PP, Gubas A et al. Expression of WIPI2B counteracts age-related decline in autophagosome biogenesis in neurons *Elife* 2019-07-16 [PMID: 31309927] (WB, Mouse)

Song C, Mitter SK, Qi X et al. Oxidative stress-mediated NF κ B phosphorylation upregulates p62/SQSTM1 and promotes retinal pigmented epithelial cell survival through increased autophagy. *PLoS ONE*. 2017-02-21 [PMID: 28222108] (WB, Mouse)



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Products Related to NBP2-38524

NBP2-38524PEP	ATG10 Recombinant Protein Antigen
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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