Product Datasheet

GAPDH Antibody
NB300-327

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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Reviews: 3 Publications: 53

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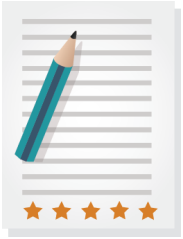
Updated 4/13/2025 v.20.1



NB300-327

GAPDH Antibody

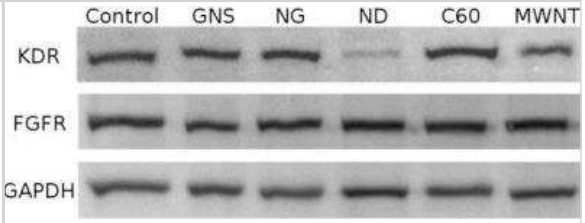
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.035% Sodium Azide
Purity	Unpurified
Buffer	Supplied as serum
Target Molecular Weight	36 kDa

Product Description	
Host	Rabbit
Gene ID	2597
Gene Symbol	GAPDH
Species	Human, Mouse, Rat, Porcine, Bacteria, Bovine, Chicken, Equine, Fungi, Invertebrate, Yeast
Reactivity Notes	Bacteria reactivity reported in scientific literature (PMID: 31413153). Fungi reactivity reported in scientific literature (PMID:31413153).
Marker	Cytosolic Marker
Immunogen	This GAPDH antibody was developed against full length recombinant human GAPDH

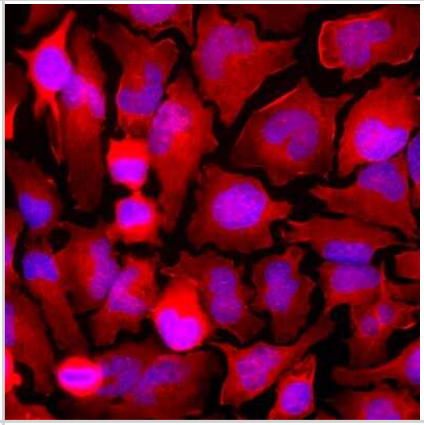
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:5000, Simple Western 1:500, Immunohistochemistry 1:10000, Immunocytochemistry/ Immunofluorescence 1:500-1:1000
Application Notes	This GAPDH antibody is useful Immunocytochemistry/Immunofluorescence and Western blot. In Western blot a band is observed at approx. 36kDa, and on cells in tissue culture the antibody stains in a punctate cytoplasmic fashion. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 0.2 mg/mL, separated by Size, antibody dilution of 1:500, apparent MW was 43 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

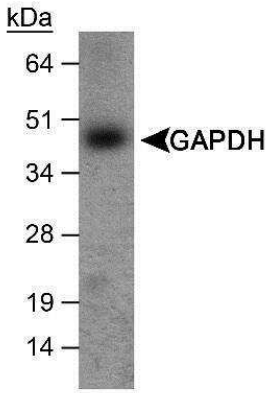
Western Blot: GAPDH Antibody [NB300-327] - Representative immunoblot of KDR and FGFR CAM protein expression levels examined by Western blotting. GNS, graphene nanosheet; NG, graphite nanoparticle; ND, diamond nanoparticle; C60, fullerene C60; MWNT, multi-wall nanotube; KDR, vascular endothelial growth factor receptor; FGFR, fibroblast growth factor receptor; GAPDH, glyceraldehyde-3-phosphate dehydrogenase. Image collected and cropped by CiteAb from the following publication (https://nanoscalereslett.springeropen.com/articles/10.1186/1556-276X-8-195), licensed under a CC-BY license.



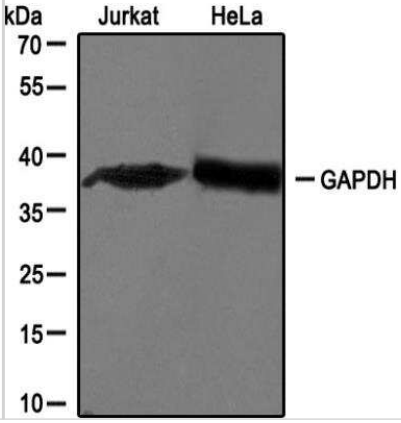
Immunocytochemistry/Immunofluorescence: GAPDH Antibody [NB300-327] - Analysis of HeLa cells stained with rabbit pAb to GAPDH, dilution 1:2000 in red. Blue is Hoescht staining of nuclear DNA. The GAPDH antibody produces diffuse cytoplasmic staining of cells.



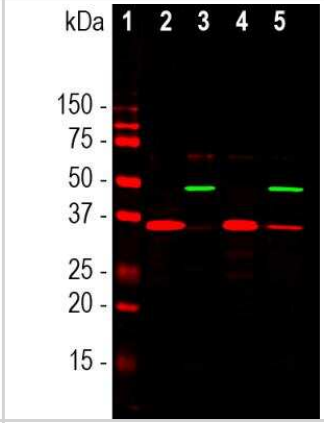
Western Blot: GAPDH Antibody [NB300-327] - Theoretical molecular weight: 36 kDa. Detection of GAPDH in mouse liver.



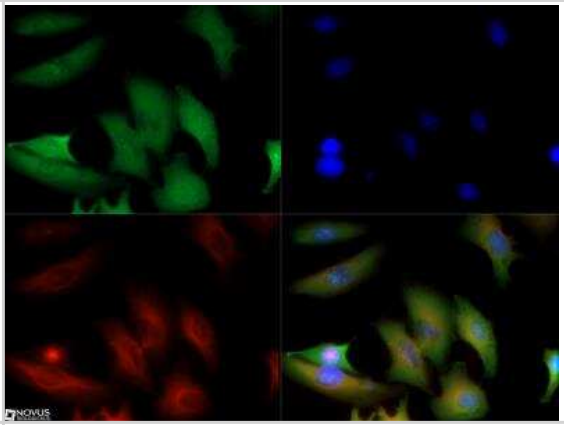
Western Blot: GAPDH Antibody [NB300-327] - Western blot analysis of extracts from Jurkat and HeLa cells using NB300-327 at 1:1000. Theoretical molecular weight: 36 kDa.



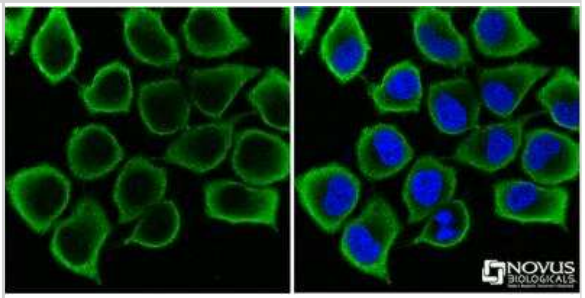
Western Blot: GAPDH Antibody [NB300-327] - Analysis of different cell cytosolic or nuclear enriched fractions, GAPDH antibody, dilution 1:20,000 (Red): [1] protein standard, [2] NIH-3T3 cytosolic, [3] NIH-3T3 nuclear, [4] HeLa cytosolic, and [5] HeLa nuclear fractions. Strong band at 37kDa corresponds to GAPDH protein, mainly detected in the cytosolic fractions. The same blot was simultaneously probed with mouse mAb to the nuclear RNA binding protein SF3B4, dilution 1:1,000 (Green). In contrast to GAPDH, SF3B4 is exclusively expressed in the nuclear fraction.



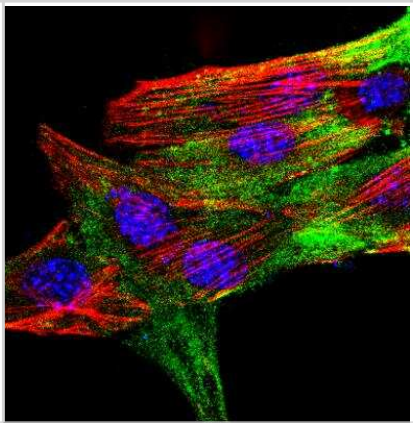
Immunocytochemistry/Immunofluorescence: GAPDH Antibody [NB300-327] - The GAPDH antibody was tested in Hela cells at a 1:500 dilution against Dylight 488 (Green). Alpha-tubulin and nuclei were counterstained with Dylight 550 (Red) and DAPI (Blue), respectively.

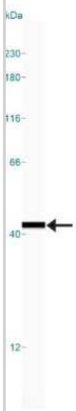
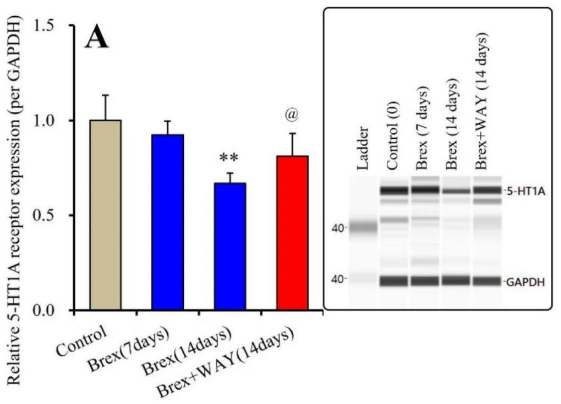
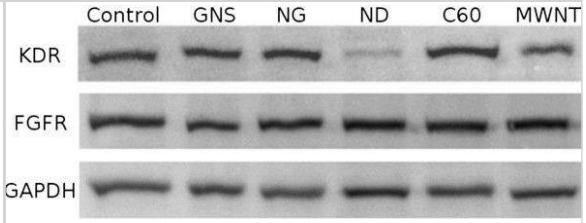
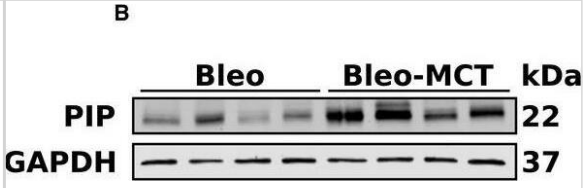


Immunocytochemistry/Immunofluorescence: GAPDH Antibody [NB300-327] - Confocal immunofluorescence analysis of HeLa cells using GAPDH (NB300-327) antibody (green). Nuclei was counterstained with DAPI (blue).

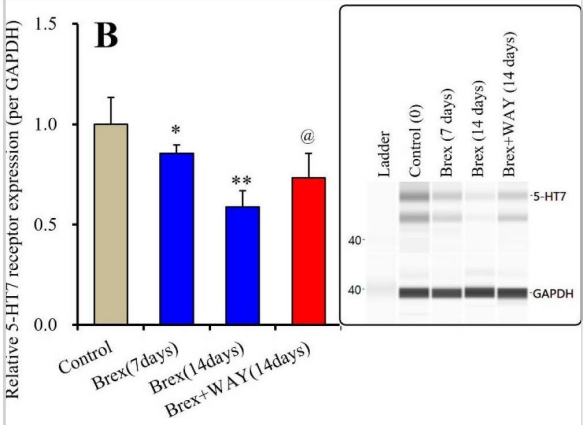


Immunocytochemistry/Immunofluorescence: GAPDH Antibody [NB300-327] - IF Confocal analysis of C2C12 cells using GAPDH antibody (NB300-327, 1:20). An Alexa Fluor 488-conjugated Goat to rabbit IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red). DAPI was used to stain the cell nuclei (blue).

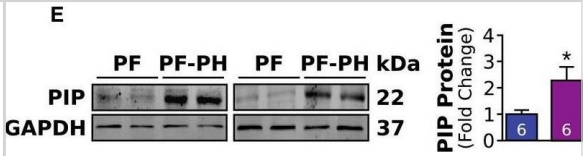


Simple Western: GAPDH Antibody [NB300-327] - Simple Western lane view shows a specific band for GAPDH in 0.2 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Note: band observed higer than predicted 36 kDa molecular weight.	
Western Blot: GAPDH Antibody [NB300-327] - Effects of subchronic administration (7 and 14 days) of therapeutic relevant concentration of Brex (Brex: 300 nM) and interaction between Brex and 5-HT1A receptor (5-HT1AR) antagonist WAY (10 uM) on protein expression of 5-HT1A receptor in the plasma membrane fraction of cortical primary cultured astrocytes. In left side histograms, ordinate: mean +/- SD (n = 6) of the relative protein level of 5-HT1AR per GAPDH. * p < 0.05, ** p < 0.01: relative to control (Brex-free) by one-way analysis of variance (ANOVA) with Tukey's post-hoc test, and @ p < 0.05: relative to Brex for 14 days by Student's T-test. Right side panels indicate their pseudo-gel images using capillary immunoblotting. Antibodies used: 5-HT1A (NBP2-21590) and GAPDH (NB300-327). Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/35743014/) licensed under a CC-BY license.	
Representative immunoblot of KDR and FGFR CAM protein expression levels examined by Western blotting. GNS, graphene nanosheet; NG, graphite nanoparticle; ND, diamond nanoparticle; C60, fullerene C60; MWNT, multi-wall nanotube; KDR, vascular endothelial growth factor receptor; FGFR, fibroblast growth factor receptor; GAPDH, glyceraldehyde-3-phosphate dehydrogenase.	
Western Blot: GAPDH Antibody [NB300-327] - Increased PIP expression in the lungs of PF□PH compared to PF ratsA, BRelative expression of PIP mRNA (A) & protein (B) normalized to GAPDH.CRepresentative images & PIP quantification.Data information: Values are expressed as mean ± SEM. The number of samples per group for each experiment is included within each bar graph (t□test; *P < 0.05, **P < 0.01). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31468711), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

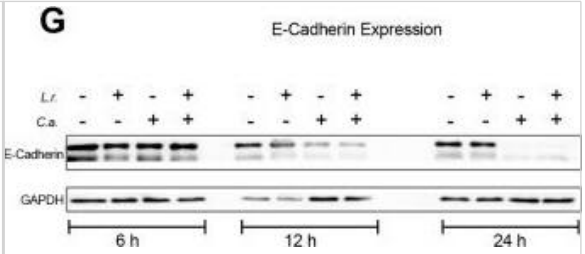
Western Blot: GAPDH Antibody [NB300-327] - Effects of subchronic administration (7 & 14 days) of therapeutic relevant concentration of Brex (Brex: 300 nM) & interaction between Brex & 5-HT1A receptor (5-HT1AR) antagonist WAY100635 (WAY: 10 μM) on protein expression of 5-HT1A (panel A) & 5-HT7 (panel B) receptor in the plasma membrane fraction of cortical primary cultured astrocytes. In left side histograms, ordinate: mean ± SD (n = 6) of the relative protein level of 5-HT1AR & 5-HT7R per GAPDH. * p < 0.05, ** p < 0.01: relative to control (Brex-free) by one-way analysis of variance (ANOVA) with Tukey's post-hoc test, & @ p < 0.05: relative to Brex for 14 days by Student's T-test. Right side panels indicate their pseudo-gel images using capillary immunoblotting. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35743014), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: GAPDH Antibody [NB300-327] - Online lung microarray analysis revealed PIP as one of the Slug transcriptional targets mediating vascular cell proliferation in PF□PHAHeatmap of the 20 genes upregulated in GSE24988 microarray & known to be Slug transcriptional target.BVenn diagram showing the overlap between Slug targets implicated in cell proliferation & known to be extracellular.CHeatmap of the seven transcriptional targets of Slug known to promote proliferation & to be extracellular.D, ERelative expression of prolactin□induced protein (PIP) mRNA (D) & protein (E) expression normalized to GAPDH in PF & PF□PH patients.FRepresentative images of PIP immunohistochemistry showing its extracellular localization & quantification.G–JProliferation assay on healthy fibroblast (G), pulmonary arterial EC (H), & healthy pulmonary arterial SMC (I & J) in the presence or absence of PIP.Data information: Values are expressed as mean ± SEM. The number of samples per group for each experiment is included within each bar graph. Statistical test: panels (D–F): t□test; panels (G–J): ANOVA (*P < 0.05, **P < 0.01 ***P < 0.001). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31468711), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: GAPDH Antibody [NB300-327] - Growth of lactobacilli on IECs & their influence towards C. albicans cytotoxicity, adhesion, hyphal length & translocation. (A) LDH release of IECs colonized (Pre-Inc.) or simultaneously colonized (w/o Pre-Inc.) with L. rhamnosus (L.r.) at different MOI (5, 50 or 250) & infected or not with C. albicans (C.a.) (MOI 1) & measured at 24 h post-infection. (B) Growth of L. paracasei (L.p.), L. rhamnosus, L. salivarius (L.s.), L. fermentum (L.f.), & L. brevis (L.b.) on IECs. (C) Percentage of C. albicans adhered to IECs colonized with different Lactobacillus species (MOI 50) at 1 h post-infection. (D) C. albicans hyphal induction on IECs or on plastic colonized with L. rhamnosus or L. brevis (MOI 50) at 4 h post-infection. Results were normalized to C. albicans single infection. (E) Translocation of C. albicans (MOI 1) across IECs colonized with L. rhamnosus or L. brevis (MOI 50) at 24 h post-infection. (F) Assessment of epithelial barrier integrity measured as the loss of transepithelial electrical resistance (TEER) in response to L. rhamnosus or L. brevis (MOI 50) colonization & C. albicans infection in the presence or absence of Lactobacillus colonization at 24 h post-infection. Data are TEER loss in percentage of uninfected host cells (before pre-incubation). (G) E-Cadherin protein expression analyzed by western blot compared to GAPDH in IECs that were left uninfected or colonized with L. rhamnosus (MOI 50) & infected with C. albicans for 6, 12 & 24 h. Data are mean±s.e.m. *P<0.05, **P<0.01, ***P<0.005 (t-test). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31413153), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Li Y, Liang L., et Al. Transcription Impairment of TMEM208 by ZBTB14 Suppresses Breast cancer Radiotherapy Resistance J Mammary Gland Biol Neoplasia 2024-12-18 [PMID: 39692812]

Greene ES, Tabler T, Bottje WG et Al. Effect of Heat Stress on the Expression of Circulating Cyto(chemo)kine and Inflammatory Markers in Broiler Chickens Selected for High- or Low-water Efficiency Front Biosci (Landmark Ed) 2024-10-30 [PMID: 39473418]

Cruvinel JM, Greene ES, Read RW et Al. Research note: Increased lipid accumulation within broiler preadipocytes during differentiation in vitro at atmospheric oxygen tension Poult Sci 2024-11-08 [PMID: 39566173]

Senthil K, Ranganathan A, Piel S et al. Elevated serum neurologic biomarker profiles after cardiac arrest in a porcine model. Resuscitation plus 2024-09-01 [PMID: 39149222]

Turner NP, Abeysinghe P, Sadowski P, Mitchell MD Omics Analysis of Extracellular Vesicles Recovered from Infant Formula Products and Milk: Towards Personalized Infant Nutrition Molecular nutrition & food research 2023-08-10 [PMID: 37562982] (Western Blot, Bovine, Human)

Loujain Aloui, Elizabeth S. Greene, Travis Tabler, Kentu Lassiter, Kevin Thompson, Walter G. Bottje, Sara Orlowski, Sami Dridi Effect of heat stress on the hypothalamic expression profile of water homeostasis□associated genes in low□ and high□water efficient chicken lines Physiological Reports 2024-03-11 [PMID: 38467563]

Damian M Janecki, Raneet Sen, Natalia Szóstak, Arkadiusz Kajdasz, Martyna Kordyś, Kinga Plawgo, Dmytro Pandakov, Anna Philips, Zbigniew Warkocki LINE-1 mRNA 3′ end dynamics shape its biology and retrotransposition potential Nucleic Acids Research 2024-04-12 [PMID: 38197223]

H M Stone, E Unal, T A Romano, P E Turner Beluga whale and bottlenose dolphin ACE2 proteins allow cell entry mediated by spike protein from three variants of SARS-CoV-2. Biology letters 2023-12-07 [PMID: 38053365]

Dziembowski A, Krawczyk P, Mroczek S et al. SARS-CoV-2 mRNA vaccine is re-adenylated in vivo, enhancing antigen production and immune response Research Square 2023-06-07

Walk C, Mullenix G, Maynard C et al. In-feed supplementation of a novel 4 th -generation phytase improves growth performance and reduces wooden breast severity in Ross 708 broilers through modulation of muscle glucose uptake and metabolism Research Square 2023-09-25 (WB, Chicken)

M□ller LB, Mogensen M, Weaver DD, Pedersen PA. Occipital Horn Syndrome as a Result of Splice Site Mutations in ATP7A. No Activity of ATP7A Splice Variants Missing Exon 10 or Exon 15 Frontiers in Molecular Neuroscience 2021-04-21 [PMID: 33967692] (Western Blot)

Gan KJ, Akram A, Blasius TL et al. GSK3? Impairs KIF1A Transport in a Cellular Model of Alzheimer's Disease but Does Not Regulate Motor Motility at S402 eNeuro 2020-10-16 [PMID: 33067366]

More publications at http://www.novusbio.com/NB300-327

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Products Related to NB300-327

NBL1-10967	GAPDH Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
H00002597-P02-10ug	Recombinant Human GAPDH GST (N-Term) Protein

Limitations
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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