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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NB300-327

GAPDH Antibody

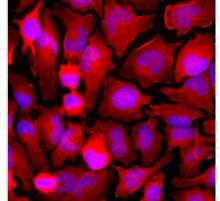
Product Information		
Unit Size	0.1 ml	
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.	
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.	
Clonality	Polyclonal	
Preservative	5mM Sodium Azide	
Purity	Unpurified	
Buffer	Supplied as serum	
Target Molecular Weight	36 kDa	
Product Description		
Host	Rabbit	
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. Separated by Size-Wes, Sally Sue/Peggy Sue.	

Images

Control GNS NG ND C60 MWNT Western Blot: GAPDH Antibody [NB300-327] - Representative immunoblot of KDR and FGFR CAM protein expression levels examined KDR by Western blotting. GNS, graphene nanosheet; NG, graphite nanoparticle; ND, diamond nanoparticle; C60, fullerene C60; MWNT, FGFR multi-wall nanotube; KDR, vascular endothelial growth factor receptor; FGFR, fibroblast growth factor receptor; GAPDH, glyceraldehyde-3-GAPDH 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.



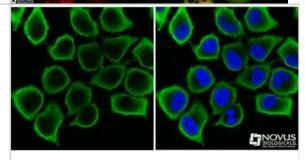
Immunocytochemistry/Immunofluorescence: GAPDH Antibody [NB300-327] - Analysis of HeLa cells stained with rabbit pAb to GAPDH, dilution 1:2000 in red. Blue is Hoescht staining of nuclear DNA. The GAPDH antibody produces diffuse cytoplasmic staining of cells.



Western Blot: GAPDH Antibody [NB300-327] - Theoretical molecular weight: 36 kDa. Detection of GAPDH in mouse liver.	<u>kDa</u> 64 51 34 28 19 14
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.	kDa Jurkat HeLa 70 55 40 35 25 15 10
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.	kDa 1 2 3 4 5 150 - 75 - 50 - 37 - 25 - 20 - 15 -



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.



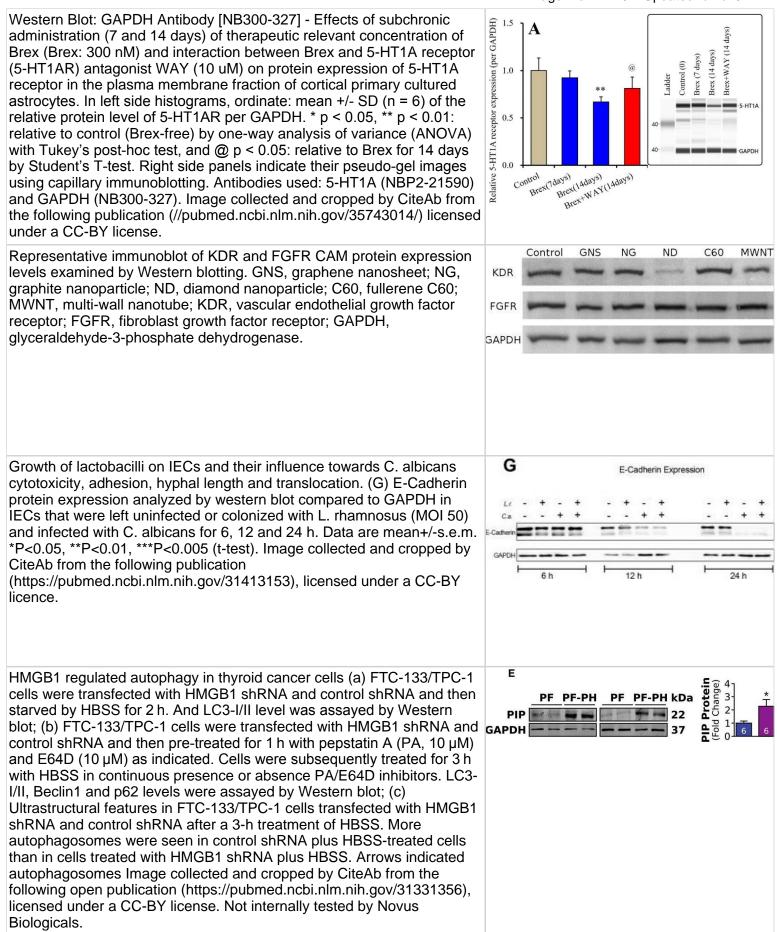
Immunocytochemistry/Immunofluorescence: GAPDH Antibody [NB300-327] - Confocal immunofluorescence analysis of HeLa cells using GAPDH (NB300-327) antibody (green). Nuclei was counterstained with DAPI (blue).

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).

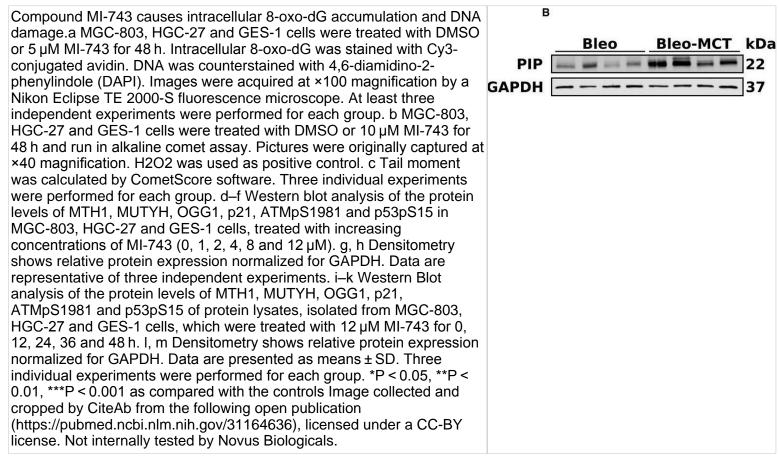
Simple Western: GAPDH Antibody [NB300-327] - Simple Western lane view shows a specific band for GAPDH in 0.2 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Note: band observed higer than predicted 36 kDa molecular weight.













Publications

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] (WB)

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]

Drazkowska K, Tomecki R, Warminski M et al. 2'-O-Methylation of the second transcribed nucleotide within the mRNA 5' cap impacts the protein production level in a cell-specific manner and contributes to RNA immune evasion Nucleic Acids Research 2022-09-09 [PMID: 36018811] (WB)

Yang W, Han B, Chen Y, Geng F SAAL1, a novel oncogene, is associated with prognosis and immunotherapy in multiple types of cancer Aging 2022-08-13 [PMID: 35963646] (WB, Human)

Okada M, Fukuyama K, Motomura E Dose-Dependent Biphasic Action of Quetiapine on AMPK Signalling via 5-HT7 Receptor: Exploring Pathophysiology of Clinical and Adverse Effects of Quetiapine International journal of molecular sciences 2022-08-14 [PMID: 36012369] (Simple Western, Rat)

Details:

Dilution used 1:300

Fukuyama K, Motomura E, Okada M Brexpiprazole Reduces 5-HT7 Receptor Function on Astroglial Transmission Systems International journal of molecular sciences 2022-06-12 [PMID: 35743014] (Simple Western, WB, Rat)

Baron DM, Fenton AR, Saez-Atienzar S et al. ALS-associated KIF5A mutations abolish autoinhibition resulting in a toxic gain of function Cell reports 2022-04-05 [PMID: 35385738] (In vitro, Mouse)

Fukuyama K, Motomura E, Shiroyama T, Okada M Impact of 5-HT7 receptor inverse agonism of lurasidone on monoaminergic tripartite synaptic transmission and pathophysiology of lower risk of weight gain Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie 2022-02-24 [PMID: 35219120] (WB, Rat)

Kadhim HJ, Kang SW, Kuenzel WJ Possible roles of brain derived neurotrophic factor and corticotropin releasing hormone neurons in the nucleus of hippocampal commissure functioning within the avian neuroendocrine regulation of stress Stress (Amsterdam, Netherlands) 2021-05-28 [PMID: 34003076]

Sikorski K, Mehta A et al. A high-throughput pipeline for validation of antibodies. Nat Methods 2018-01-11 [PMID: 30377371] (Human)

Details:

Antibody validation based on denaturing gel electrophoresis of biotinylated cell lysates (PAGE) followed by mass spectrometry (MS) and antibody array analysis (MAP).

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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