Product Datasheet

GAPDH Antibody - BSA Free NB100-56875

Unit Size: 0.1 mg

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



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NB100-56875

GAPDH Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	36 kDa
Product Description	
Host	Rabbit
Gene ID	2597
Gene Symbol	GAPDH
Species	Human, Mouse, Rat, Porcine, Canine, Drosophila, Feline, Hamster, Primate
Reactivity Notes	Porcine reactivity reported in scientific literature (PMID:32764569). Immunogen displays the following percentage of sequence identity for non-tested species: 100% homologous in baboon, chimp and macaque; salamander(86%).
Marker	Cytosolic Marker
Immunogen	Amino acids 73-87 PITIFQERDPSKIKW of glyceraldehyde 3-phosphate dehydrogenase protein were used as the immunogen of this GAPDH antibody.
Product Application Details	
Applications	Western Blot, Simple Western, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:2000, Simple Western 1:500, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoblotting
Application Notes	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: Tested in HeLa lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:500, apparent MW was 43 kDa. Use in immunoblotting reported in scientific literature (PMID: 28545464). Use in ICC/IF was reported in scientific literature (PMID: 31312260). Use in Immunohistochemistry reported in scientific literature (PMID:32123074).





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Page 4 of 7 v.20.1 Updated 4/13/2025 Membrane А Western Blot: GAPDH Antibody [NB100-56875] - Overexpression of PNS CYtos HsVps13A rescues phenotypes of Vps13 mutants.(A) Samples from fly CN heads of Actin-GAL4 / + (as a control) & Actin-GAL4 / UAS-HsVps13A Control HsVPS13A (HsVps13A expressing) flies were separated into a membrane & cytosol fraction & analyzed by Western blot for HsVps13A levels. EGFR & HsVPS13A GAPDH used as controls for membrane & cytosolic proteins, ~360 kDa • respectively. (B) Eclosion rate of Vps13 mutant flies a Actin-GAL4/+ (control) or Actin-GAL4/UAS-HsVp13A (HsVps13A expressing) EGFR background at 25°C. (C) Ubiguitylated proteins from samples of 1 day old fly head extracts of Vps13/CyO; Actin-GAL4/+ (as a control), Vps13/ 180 kDa Vps13; Actin-GAL4/+ (representing homozygous mutants) & Vps13/ GAPDH Vps13; Actin-GAL4/UAS-HsVps13A (representing homozygous mutants expressing human VPS13A). (D) Representative picture of ubiquitylated 37 kDa protein staining of the third instar larval ventral nerve cord of Vps13/CvO; Actin-GAL4/+ (as a control), Vps13/ Vps13; Actin-GAL4/+ & Vps13/ Vps13; Actin-GAL4/UAS-HsVps13A. Arrows indicate accumulations of ubiquitylated positive structures. The scale bar indicates 50 µm & 12.5 µm in the enlargement. (E) Quantification of the number of puncta in third instar larval ventral nerve cord of the experiment presented in Fig 6D. (F) Life span curve of Vps13/ Vps13; Actin-GAL4/+ & Vps13/ Vps13; Actin-GAL4/UAS-HsVps13A. All quantifications show the mean & SEM of at least three independent experiments per condition. For statistical analysis a two-tailed students T-test was used in combination with a Welch's correction if necessary. P<0.05 is *, P<0.01 is ** & P<0.001 is ***. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/28107480), licensed under a CC-BY license. Not internally tested by Novus Biologicals. Western Blot: GAPDH Antibody [NB100-56875] - No dystrophin WT rat GD Dmd^{mdx} rat expression was detected in cardiac & skeletal muscles of Dmdmdx rats. н тс тс н н н тс тс тс (A) Male 7 month-old rats of line 61, wild-type littermate controls (WT) & 427kD Dystrophin (Epitope C-ter) Dmdmdx were sacrificed & biopsies from tibialis cranialis muscles (TC) & 427kD Dystrophin (Epitope exons 10/11) hearts (H) were harvested. Western-blot of total proteins (50 µg) was GAPDH incubated with NCL-DYS2 & Manex1011C monoclonal antibodies (Cterminal & exons 10/11 epitopes, respectively). This revealed undetectable levels of the 427 kDa dystrophin band in line 61 Dmdmdx rats. Muscle from a GRMD dog (GD) was used as negative control & samples from WT rats were used as positive controls. Staining with an anti-GAPDH polyclonal antibody validated equal protein loadings. (B-E) Heart & biceps femoris muscles from the same wild-type (B & C) & Dmdmdx rats (D & E) were assessed for dystrophin expression using immunohistochemistry with Mandys110 monoclonal antibody (against exons 38–39 epitope). Compared to the subsarcolemmal expression of dystrophin in wild-type muscles, no dystrophin was detected in Dmdmdx rats except for the presence in skeletal muscle of only rare scattered revertant positive fibers (arrowheads). Immunolabelling of dystrophin (B-E) Bar=100 µm. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0110371), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Publications

Miktosz A, tukaszuk B, Baranowski M et al. Nerve regeneration in rat peripheral nerve allografts: Evaluation of coldinducible RNA-binding protein in nerve storage and regeneration J. Comp. Neurol. 2019-05-22 [PMID: 31116410]

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Lopez A, Siddiqi FH, Villeneuve J et al. Carbonic anhydrase inhibition ameliorates tau toxicity via enhanced tau secretion. Nature chemical biology 2024-10-31 [PMID: 39482469]

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Cali M. McEntee, Alyssa N. Cavalier, Thomas J. LaRocca ADAR1 suppression causes interferon signaling and transposable element transcript accumulation in human astrocytes Frontiers in Molecular Neuroscience 2023-10-25 [PMID: 38035265]

Krisko TI, Nicholls HT, Bare CJ et al. Dissociation of Adaptive Thermogenesis from Glucose Homeostasis in Microbiome-Deficient Mice Cell Metab. 2020-02-12 [PMID: 32084379]

More publications at <u>http://www.novusbio.com/NB100-56875</u>





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NB800-PC1	HeLa Whole Cell Lysate

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