

Product Datasheet

GAPDH Antibody 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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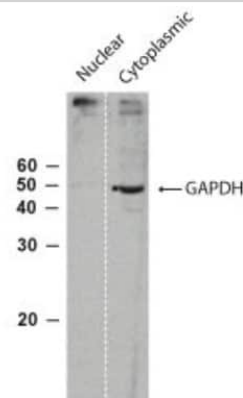
NB100-56875

GAPDH Antibody

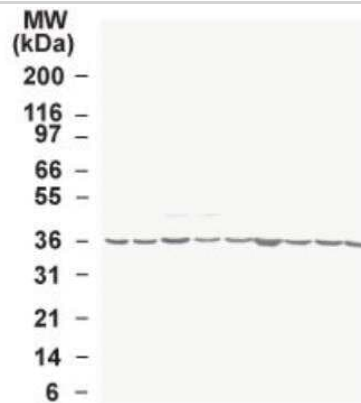
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	36 kDa
Product Description	
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. Separated by Size. 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).

Images

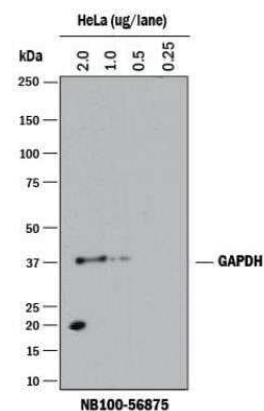
Western Blot: GAPDH Antibody [NB100-56875] - Analysis of GAPDH using this antibody at 1:500 in nuclear and cytoplasmic fractions made from *Drosophila* head extracts. Data courtesy of Dr. Jerry Lin, University of Wisconsin-Madison.



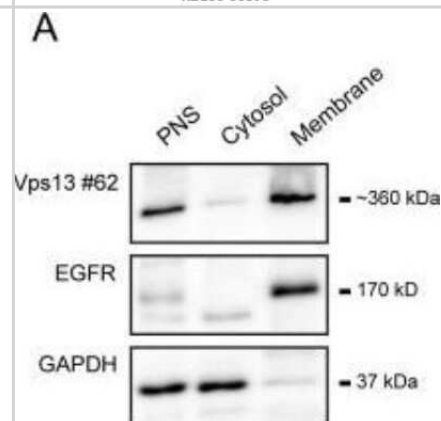
Western Blot: GAPDH Antibody [NB100-56875] - Analysis of GAPDH in the multiple human tumor cell line lysate INSTA-Blot using this antibody. 25 ug/ml. Theoretical molecular weight: 36 kDa.



Western Blot: GAPDH Antibody [NB100-56875] - Analysis using HeLa cells. Theoretical molecular weight: 36 kDa.



Western Blot: GAPDH Antibody [NB100-56875] - Vps13 co-fractionates with Rab7 and Rab5. Western blot analysis of control fly head samples fractionated into a cytosolic and membrane fraction from postnuclear supernatant (PNS). EGFR was used as a membrane marker and GAPDH as a cytosolic marker. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0170106>), licensed under a CC-BY license.

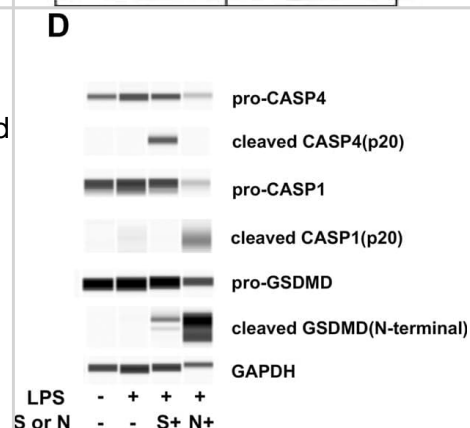
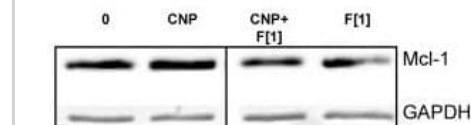
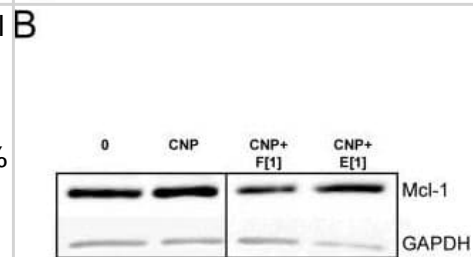
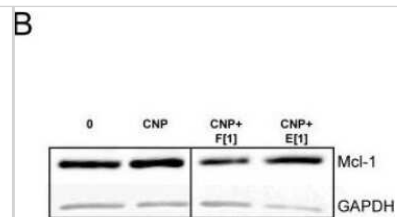


Western Blot: GAPDH Antibody [NB100-56875] - Particle-induced Changes in Apoptosis are Restored by Firoin. Peripheral blood neutrophils from healthy donors (n57), 2 h pre-treated with indicated amounts of firoin (F) or 1 mM ectoine (E) before CNP exposition (33 mg/ml). : 6 h post CNP-treatment the anti-apoptotic Mcl-1 expression was measured by Western blot analysis. GAPDH was used as a loading control. Two representative blots from different individuals are shown and irrelevant lanes were removed. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0111485>), licensed under a CC-BY license.

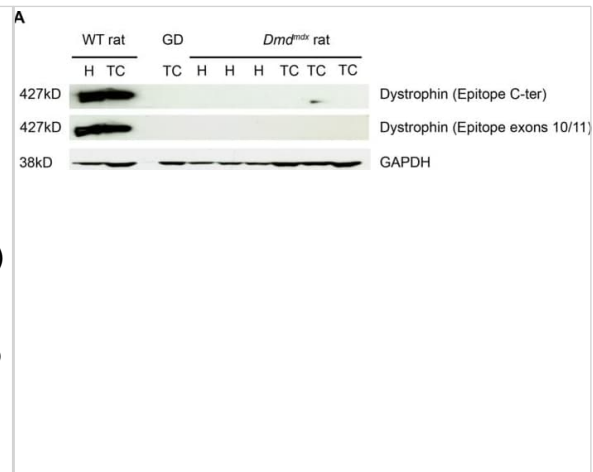
Simple Western: GAPDH Antibody [NB100-56875] - Lane view shows a specific band for GAPDH in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing A246conditions using the 12-230 kDa separation system. Note: band observed higher than predicted 36 kDa molecular weight.

Particle-induced Changes in Apoptosis are Restored by Firoin. Peripheral blood neutrophils from healthy donors (n = 7), 2 h pre-treated with indicated amounts of firoin (F) or 1 mM ectoine (E) before CNP exposition (33 ug/ml). A: After 16 h of CNP treatment, cells were stained with Annexin V and analysed flow cytometrically. Normalized values of % Annexin V-positive cells are shown. Natural apoptosis of untreated cells was considered as 1. Dark bars, CNP-treated, light bars, untreated. * Significantly different from CNP alone (Mann-Whitney U Test after Bonferroni correction for multiple testing $p < 0.05$). B: 6 h post CNP-treatment the anti-apoptotic Mcl-1 expression was measured by Western blot analysis. GAPDH was used as a loading control. Two representative blots from different individuals are shown and irrelevant lanes were removed. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0111485>), licensed under a CC-BY licence.

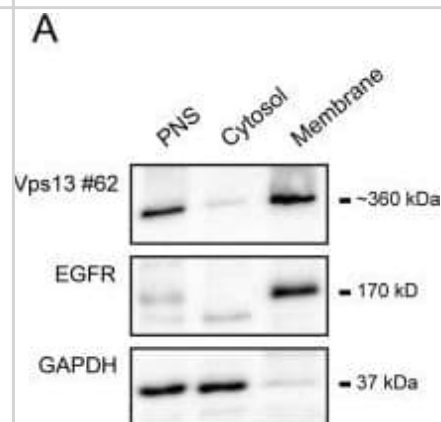
Analysis of non-canonical inflammasome pathway. D) Western blotting for the cleaved forms of CASP1 (p20), CASP4 (p20), and GSDMD (N-terminal). S: SCGB3A2, N: nigericin. Experiments were repeated more than twice and same results were obtained. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33452234>), licensed under a CC-BY licence.



No dystrophin expression was detected in cardiac and skeletal muscles of Dmdmdx rats. (A) Male 7 month-old rats of line 61, wild-type littermate controls (WT) and Dmdmdx were sacrificed and biopsies from tibialis cranialis muscles (TC) and hearts (H) were harvested. Western-blot of total proteins (50 ug) was incubated with NCL-DYS2 and Manex1011C monoclonal antibodies (C-terminal and 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 and samples from WT rats were used as positive controls. Staining with an anti-GAPDH polyclonal antibody validated equal protein loadings. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0110371>), licensed under a CC-BY licence.



Antigen uptake is reduced in K14E7 mice. Epidermal cell suspensions from C57BL/6 and K14E7 mice were cultured with Alexa-555-labelled OVA overnight at 37°C, stained and analysed by flow cytometry (A). The Alexa-555-OVA+ LC (CD45.2+, MHC Class II+, CD207+) as a percentage of total LC (B) and the level of expression of Alexa-555-OVA on the positive stained LC is shown (C). **P < 0.01; *P < 0.05 (Mann-Whitney U test). Confocal imaging of CD207+, MHCII+ LC that have taken up Alexa-555-OVA (D). Image collected and cropped by CiteAb from the following open publication (<https://dx.plos.org/10.1371/journal.pone.0127155>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Yang C, Deng L, Bao F et al. Sevoflurane with Low Concentration Decrease DNA Methylation on Chronic Obstructive Pulmonary Disease (COPD)-Related Gene Promoter in COPD Rat COPD 2023-12-01 [PMID: 38010369] (WB)

Ward A, Hall C, Tree M, Kohtz D Spheroid architecture strongly induces miR-221/222 expression and promotes oxidative phosphorylation and survival of mobile tumor cells through a mechanism that includes restriction of miR-9 expression bioRxiv 2023-08-23 (WB, Human)

Belvin BR, Lewis JP. Ferroportin depletes iron needed for cell cycle progression in head and neck squamous cell carcinoma Frontiers in Oncology 2023-01-09 [PMID: 36698390] (WB, B/N)

Cheng L, Zhu X, Liu Y et al. ACSL4 contributes to sevoflurane-induced ferroptotic neuronal death in SH-SY5Y cells via the 5' AMP-activated protein kinase/mammalian target of rapamycin pathway Annals of Translational Medicine 2021-09-01 [PMID: 34734006] (WB, B/N)

Druzak SA, Tardelli M, Mays SG et al. Ligand dependent interaction between PC-TP and PPAR γ mitigates diet-induced hepatic steatosis in male mice Nature Communications 2023-05-12 [PMID: 37173315] (WB, B/N)

Sung SE, Seo MS, Kang KK et al. Isolation and Characterization of Extracellular Vesicle from Mesenchymal Stem Cells of the Epidural Fat of the Spine Asian Spine Journal 2022-04-30 [PMID: 34461688] (B/N, WB)

Jacome Burbano MS, Robin JD, Bauwens S et al. Non-canonical telomere protection role of FOXO3a of human skeletal muscle cells regulated by the TRF2-redox axis Communications biology 2023-05-25 [PMID: 37231173] (B/N, WB)

Details:

Dilution:1:200

Haque R, Lee J, Chung JY et al. VGLL3 expression is associated with macrophage infiltration and predicts poor prognosis in epithelial ovarian cancer Frontiers in oncology 2023-06-05 [PMID: 37342190] (WB, Human)

Ito S, Sasaki H, Gotow T et al. Soy isoflavone daidzein protects Neuro2a cells from NO stress via activation of AMPK-PGC1 β pathway followed by mitochondrial enhancement PharmaNutrition 2023-06-01 (WB)

Kurosawa K, Nakano M, Yokoseki I et al. ncBAF, a chromatin remodeler, enhances PXR-mediated transcriptional activation in the human and mouse liver bioRxiv 2023-02-05

Li CY, Liang Z, Hu Y et al. Cytidine-containing tails robustly enhance and prolong protein production of synthetic mRNA in cell and in vivo Molecular therapy. Nucleic acids 2022-12-13 [PMID: 36320322] (WB, Human)

Chen X, Zhang H, Xiao B C9orf16 represents the aberrant genetic programs and drives the progression of PDAC BMC cancer 2022-10-28 [PMID: 36307773] (WB, Human)

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



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NBP2-24891	Rabbit IgG Isotype Control

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