# **Product Datasheet**

## **GAPDH** Antibody NB300-322

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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Updated 12/20/2023 v.20.1

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## NB300-322

GAPDH Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA
Target Molecular Weight	36 kDa
Product Description	
Host	Rabbit
Gene ID	2597
Gene Symbol	GAPDH
Species	Human, Mouse, Rat, Chicken, Primate
Reactivity Notes	Chicken reactivity reported in scientific literature (Youngworth IA et al).
Marker	Cytosolic Marker
Immunogen	This GAPDH antibody was developed against an epitope between residues 150 and 200 of human GAPDH using the numbering given in entry NP_002037.2 (GeneID 2597).
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Simple Western 1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation, Immunohistochemistry-Paraffin 1:100-1:500, Knockdown Validated
Application Notes	This GAPDH antibody is useful for Western Blot, Immunocytochemistry/Immunofluorescence and Immunohistochemistry-Paraffin applications. For IHC, antigen retrieval with citrate buffer pH6.0 is recommended for formalin fixed paraffin embedded tissue sections. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.







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Western Blot: GAPDH Antibody [NB300-322] - c-Src is required for efficient translation of PRC2 component mRNAs. Immunoblot of PRC2 components in control and c-Src-deficient tumors. Bar chart shows quantification of fluorescent immunoblot data normalized to the loading control (Gapdh). Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41467-019-10681 -4), licensed under a CC-BY license.

Immunocytochemistry/Immunofluorescence: GAPDH Antibody [NB300-322] - GAPDH detection in HeLa cells with ICC-IF application using

NB300-322, visualized with DyLight Fluor 488.





Immunohistochemistry: GAPDH Antibody [NB300-322] - Detection of mouse GAPDH by immunohistochemistry. Sample: FFPE section of mouse plasmacytoma. Antibody: Affinity purified rabbit anti-GAPDH (NB300-322). Detection: DAB

Western Blot: GAPDH Antibody [NB300-322] - Mouse DRG stained at 1:2000 dilution. Image provided by verified customer review.













Effects of anti-S100a9 Ab on the frequency of neutrophils, macrophages, and dendritic cells (DCs) in the colon of the dextran sulfate sodium (DSS) mouse model. (A) Colon lamina propria cells were isolated from normal control and IgG Ab or anti-S100a9 Ab-treated DSS mice at day 6 post-DSS colitis induction. Frequencies of neutrophils, macrophages, and DCs in the colon were determined by flow cytometry. Cells were gated on CD45+CD3-CD4-CD11b+Ly6G+, CD45+CD3-CD4-CD11b +F4/80+, and CD45+CD3-CD4-CD11b+CD11c+ populations respectively. Representative flow cytometric figures were shown. The percentage of cells was presented as the mean ± SEM of four to six individual mice per group. \*p < 0.05 in a one-way analysis of variance followed by Bonferroni correction. Data were representative of three independent experiments. (B) Immunohistochemical staining of myeloperoxidase (MPO), CD68, and CD11c proteins in the normal control and IgG Ab or anti-S100a9 Ab-treated colitis mice at day 6 (left panels: original magnification 40×, scale bar: 200 µm; right panels: original magnification 200×, scale bar: 50 µm). Staining scores were counted. One-way analysis of variance followed by Bonferroni correction. Results were representative of the three experiments performed. Error bars represent SD. (C) Expression of S100a9, Tnfα, II1β, II6, II17a, Ifnγ, II12a, II23a, II4, and II10 mRNA, as assessed by quantitative real-time PCR in normal control and IgG Ab, or anti-S100a9 Ab-treated colitis tissues. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/29326691), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

[18F]PBR06 selectivity in primary human grade IV glioblastoma xenotransplant.(A) Dynamic PET image (axial) pre-infusion of cold analog, with [18F]PBR06 uptake primarily confined to the tumor. (B) Dynamic PET image (axial) post-infusion, showing nearly total displacement of [18F]PBR06. (C) Time-activity curves of injected [18F]PBR06 in tumor (green) and contralateral brain (blue). (D) Correlative TSPO immunohistochemistry, Tumor + White Matter Tract (40X). Image collected and cropped by CiteAb from the following open publication (https://dx.plos.org/10.1371/journal.pone.0141659), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Analysis of the expression of the transgene in C-IKKa and N-IKKa tumors by biochemical and immunohistochemical approachesA. Western blot showing the increased expression of IKKα in transgenic mice. B-I. Immunohistochemistry showing the expression of the transgenic protein in N-IKKα and C-IKKa tumors. Staining with NB100-56704 antibody is shown. (B, C) Representative images showing the expression of transgenic IKKα in tumors and adjacent skin of N-IKKα/TgAC mice (B), and C-IKK $\alpha$ /TgAC animals (C). (D, E) Detail showing the nuclear (D) or cytoplasmic (E) localization of the transgenic IKKα in tumors. (F, G) Similar levels of expression of the transgenic IKKa in different N-IKKa tumors. By contrast variable levels of expression of the transgene are observed between different C-IKKa tumors (H, I). t: tumor; s: non-tumoral skin. Scale bar: (B, C) 100µm; (D, E) 80 µm; (F-I) 200 µm. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/27121058), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

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Protein expressions of intrarenal RAS components in two groups of mice. (A) Immunohistochemical analysis of intrarenal RAS expression position in the two groups of mice. AGT immunoreactivity in the proximal tubular cells, Ang II immunoreactivity in both glomerular and tubular cells, renin immunoreactivity in juxtaglomerular apparatus cells, ACE immunoreactivity in brush border membranes of proximal tubules as well as AT1 and AT2 immunoreactivity in the proximal tubules were increased in the HF group when compared to the control group. (B) Western blot analysis for protein expressions of intrarenal RAS components in the two groups of mice. (C) The histogram represents mean  $\pm$  SD of the densitometric scans for the protein bands of angiotensinogen (AGT), angiotensin II (Ang II), renin, angiotensin converting enzyme (ACE), angiotensin II type 1 receptor (AT1), angiotensin II type 2 receptor (AT2) from five experiments, normalized by  $\beta$ -actin. \* P < 0.05 vs. control. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/23570453), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





#### **Publications**

Mashimo K, Ohno Y. Cultured Neonatal Rat Cardiomyocytes Continue Beating Through Upregulation of CTGF Gene Expression Journal of Nippon Medical School 2020-12-14 [PMID: 33311008]

Fukuyama K, Okada M. Age-Dependent and Sleep/Seizure-Induced Pathomechanisms of Autosomal Dominant Sleep-Related Hypermotor Epilepsy International Journal of Molecular Sciences 2020-10-30 [PMID: 33143372] (WB)

Borovská I, Vo?echovský I, Královi?ová J Alu RNA fold links splicing with signal recognition particle proteins Nucleic acids research 2023-06-13 [PMID: 37309897] (WB, Human)

Xie X, Fan C, Luo B et al. APR-246 enhances colorectal cancer sensitivity to radiotherapy Molecular cancer therapeutics 2023-05-22 [PMID: 37216282] (WB, Human)

Fukuyama K, Motomura E, Okada M Opposing effects of clozapine and brexpiprazole on beta-aminoisobutyric acid: Pathophysiology of antipsychotics-induced weight gain Schizophrenia (Heidelberg, Germany) 2023-02-08 [PMID: 36750570] (Simple Western, Rat)

Fukuyama, K & Okada, M. Effects of Atypical Antipsychotics, Clozapine, Quetiapine and Brexpiprazole on Astroglial Transmission Associated with Connexin43. Int J Mol Sci [PMID: 34070699] (Simple Western, Rat)

Details: 0.111111111

Xue L, Schnacke P, Frei MS et al. Probing coenzyme A homeostasis with semisynthetic biosensors Nature chemical biology 2022-10-31 [PMID: 36316571] (WB)

Pengelly RJ, Bakhtiar D, Borovska I et al. Exonic splicing code and protein binding sites for calcium Nucleic acids research 2022-04-26 [PMID: 35474482] (WB)

Fukuyama K, Okada M Brivaracetam and Levetiracetam Suppress Astroglial L-Glutamate Release through Hemichannel via Inhibition of Synaptic Vesicle Protein International Journal of Molecular Sciences 2022-04-19 [PMID: 35562864] (WB, Simple Western, Rat)

Fukuyama, K;Okada, M; High frequency oscillations play important roles in development of epileptogenesis/ictogenesis via activation of astroglial signallings Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie [PMID: 35325849] (WB, Rat)

Wang J, Wang W, Huang X et al. m6A-dependent upregulation of TRAF6 by METTL3 is associated with metastatic osteosarcoma Journal of Bone Oncology 2022-02-01 [PMID: 35145841] (WB)

Fukuyama, K, Ueda, Y Et al. Effects of Carbamazepine, Lacosamide and Zonisamide on Gliotransmitter Release Associated with Activated Astroglial Hemichannels. Pharmaceuticals (Basel) 2020-06-05 [PMID: 32516974] (WB, Mouse)

More publications at http://www.novusbio.com/NB300-322





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## Products Related to NB300-322

NBP2-24891	Rabbit IgG Isotype Control
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NBL1-10967	GAPDH Overexpression Lysate

#### 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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