

# Product Datasheet

## GAPDH Antibody (2D4A7) NB300-328

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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**NB300-328****GAPDH Antibody (2D4A7)**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	2D4A7
<b>Preservative</b>	0.03% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Ammonium sulfate precipitation
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	36 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	2597
<b>Gene Symbol</b>	GAPDH
<b>Species</b>	Human, Mouse, Rat, Porcine, Rabbit
<b>Reactivity Notes</b>	Since GAPDH is one of the most conserved proteins known it is therefore likely that the antibody will react with other species. Porcine reactivity reported in scientific literature (PMID: 25063310)
<b>Marker</b>	Cytosolic Marker
<b>Immunogen</b>	GAPDH antibody raised against Ni-NTA purified recombinant human GAPDH expressed in E. Coli strain BL21 (DE3). [UniProt# P04406]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:20000, Simple Western 1:250, ELISA 1:100-1:2000, Immunohistochemistry 1:1000-1:4000, Immunocytochemistry/Immunofluorescence 1:200-1:1000, Immunoprecipitation, Immunohistochemistry-Paraffin 1:1000-1:4000
<b>Application Notes</b>	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. Use in immunoprecipitation reported in scientific literature (PMID: 25915564).



## Publications

Eriksson I, Vainikka L, Wäster P, Öllinger K Lysosomal function and intracellular position determine the malignant phenotype in malignant melanoma *The Journal of investigative dermatology* 2023-03-03 [PMID: 36871659] (Western Blot, Human)

Mukherjee A, Islam S, Kieser RE et al. Long noncoding RNAs are substrates for cytoplasmic capping enzyme *FEBS letters* 2023-03-01 [PMID: 36856012]

Demers ND, Riccio V, Jo DS et al. PEX13 prevents pexophagy by regulating ubiquitinated PEX5 and peroxisomal ROS *Autophagy* 2023-06-01 [PMID: 36541703] (WB, Human)

Lachenauer, E R, Stabler, S P Et al. p53 Disruption Increases Uracil Accumulation in DNA of Murine Embryonic Fibroblasts and Leads to Folic Acid-Nonresponsive Neural Tube Defects in Mice. *J Nutr* 2020-07-01 [PMID: 32271909] (FLOW, Human)

Sharma V, Thakore P, Majumdar S THAP9 Transposase Cleaves DNA via Conserved Acidic Residues in an RNaseH-Like Domain *Cells* 2021-05-29 [PMID: 34072453] (WB)

Camporesi E, Lashley T, Gobom J et al. Neuroligin-1 in brain and CSF of neurodegenerative disorders: investigation for synaptic biomarkers *Acta neuropathologica communications* 2021-02-01 [PMID: 33522967] (WB, Human)

Unsicker C, Cristian FB, von Hahn M, et al. SHANK2 mutations impair apoptosis, proliferation and neurite outgrowth during early neuronal differentiation in SH-SY5Y cells *Scientific reports* 2021-01-22 [PMID: 33483523] (WB, Human)

Hung WT, Wang CH, Lin SY et al. Leptin protects brain from ischemia/reperfusion-induced infarction by stabilizing the blood-brain barrier to block brain infiltration of the blood-borne neutrophils *Eur. J. Neurosci.* 2020-07-07 [PMID: 32638449]

Eriksson I, Wäster P, Öllinger K Restoration of lysosomal function after damage is accompanied by recycling of lysosomal membrane proteins *Cell Death Dis* 2020-05-14 [PMID: 32409651] (WB, Human)

Cvitic S, Strutz J, Appel HM Sexual dimorphism of miRNA signatures in feto-placental endothelial cells is associated with altered barrier function and actin organisation *Clin. Sci.* 2019-12-11 [PMID: 31825070]

Wang S, Lin M, Hsu F et al. Synthesis and Biological Evaluation of 2-Quinolineacrylamides *Bioorganic & Medicinal Chemistry* 2019-12-01 [PMID: 31924504] (WB, Human)

Law KB, Bronte-Tinkew D, Di Pietro E et al. The peroxisomal AAA ATPase complex prevents pexophagy and development of peroxisome biogenesis disorders *Autophagy*. 2017-05-04 [PMID: 28521612] (WB, Human)

Details:

Citation used the HRP format of this antibody.

More publications at <http://www.novusbio.com/NB300-328>



## Procedures

### Western Blot Protocol for GAPDH Antibody (NB300-328)

#### Western Blot

1. Resolve proteins on a 10% SDS-PAGE.
2. Transfer to nitrocellulose.
3. Block in 5% NFDM overnight at 4C.
4. Dilute anti-GAPDH (NB 300-328) 1:5,000 in blocking buffer and incubate for 2 hours at RT.
5. Dilute secondary goat anti-mouse IgG (whole molecule) conjugated to HRP (as per manufacturer's guidelines) and incubate for 1 hour at RT.
6. Develop membrane using ECL reagent.





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### **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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