Product Datasheet

GAPDH Antibody (13H12) - BSA Free NBP2-27103

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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NBP2-27103

GAPDH Antibody (13H12) - 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	Monoclonal	
Clone	13H12	
Preservative	0.02% Sodium Azide	
Isotype	IgG1 Kappa	
Purity	Protein G purified	
Buffer	PBS	
Target Molecular Weight	36 kDa	
Product Description		
Host	Mouse	
Gene ID	2597	
Gene Symbol	GAPDH	
Species	Human, Mouse, Rat, Drosophila, Monkey, Primate, Sheep	
Reactivity Notes	Based upon 91% sequence similarity with immunogen, this antibody is predicted to react with Guinea Pig, Sheep, Squirrel, Porcine/Pig, Ferret, Canine/Dog/Cat, Bovine, Reptile / Rattlesnake and several other species. Immunogen shows 82% similarity to Xenopus and Zebrafish. Rat, sheep, and monkey reactivity reported in scientific literature (PMID: 24796753, PMID: 27618403, and PMID: 24462973 respectively).	
Marker	Cytosolic Marker	
Immunogen	Amino acids between 275 and 325 of glyceraldehyde 3-phosphate dehydrogenase protein were used as the immunogen for this GAPDH antibody.	
Product Application Details		
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin	
Recommended Dilutions	Western Blot 0.25 - 1 ug/ml, Simple Western 1:25, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10, Immunohistochemistry- Paraffin 5 ug/ml	
Application Notes	 GAPDH is a widely used loading control for quantitative Western blotting. In IHC-P, the staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 0.1 mg/mL, separated by Size, antibody dilution of 1:25, apparent MW was 44 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. WB reported in 	



Images

Immunocytochemistry/Immunofluorescence: GAPDH Antibody (13H12) [NBP2-27103] - GAPDH antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). A dilution of 1:10 was used. Image objective 40x.



MW

(kDa)

200

A B

Western Blot: GAPDH Antibody (13H12) [NBP2-27103] - WB detection of GAPDH protein (theoretical molecular weight: 36 kDa) in HeLa cells lysate using GAPDH antibody (clone 13H12) in (A) the absence and (B) the presence of immunizing peptide.

Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) [NBP2-27103] - IHC-P detection GAPDH protein in a formalin-fixed paraffinembedded section of human rectal carcinoma tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration.

Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) [NBP2-27103] - IHC-P detection GAPDH protein in a formalin-fixed paraffinembedded section of normal human breast tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration.











Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) [NBP2-27103] - IHC-P detection GAPDH protein in a formalin-fixed paraffinembedded section of normal human stomach tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration.

Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) [NBP2-27103] - IHC-P detection GAPDH protein in a formalin-fixed paraffinembedded section of human colon tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration.

Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) [NBP2-27103] - IHC-P detection GAPDH protein in a formalin-fixed paraffinembedded tissue section of human esophageal squamous cell carcinoma (SCC) using GAPDH antibody (clone 13H12) at 5 ug/ml concentration.

Simple Western: GAPDH Antibody (13H12) [NBP2-27103] -GAPDH/G3PDH Antibody (13H12) [NBP2-27103] - Simple Western lane view shows a specific band for GAPDH in 0.1 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.







Expression levels of the phosphorylated proteins were normalized to that of the unphosphorylated forms. GAPDH was used as loading control. One representative blot is displayed. *p<0.05; **p<0.01; n.s. = not significant. D. After 4 h of incubation the activities of caspase-9 & caspase-3/-7 were quantified. Results are presented as means ± SEM of eight independent experiments. No significant differences were found (one-way ANOVA with Newman keuls post-hoc test). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/28493974), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

pAkt (B, n = 8) & pERK1/2 (C, n = 10) were analyzed by western blot.

Western Blot: GAPDH Antibody (13H12) - BSA Free [NBP2-27103] -Effect of AAT on McI-1 phosphorylation, the activity of MAP kinases &

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Western Blot: GAPDH Antibody (13H12) - BSA Free [NBP2-27103] -Effect of AAT on Mcl-1 phosphorylation, the activity of MAP kinases &

caspases.Neutrophils from healthy volunteers (2.5 × 106/ml) were cultured in medium supplemented with patient serum (3 mg protein/ml;

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Western Blot: GAPDH Antibody (13H12) - BSA Free [NBP2-27103] -Effect of AAT on McI-1 phosphorylation, the activity of MAP kinases & caspases.Neutrophils from healthy volunteers (2.5 × 106/ml) were cultured in medium supplemented with patient serum (3 mg protein/ml; 1%) & those containing low levels of AAT (AAT-reduce serum; 1%) in the presence of STS (0.2 μ M). After 3 h, the expression of pMcl-1 (A, n = 7), pAkt (B, n = 8) & pERK1/2 (C, n = 10) were analyzed by western blot. Expression levels of the phosphorylated proteins were normalized to that of the unphosphorylated forms. GAPDH was used as loading control. One representative blot is displayed. *p<0.05; **p<0.01; n.s. = not significant. D. After 4 h of incubation the activities of caspase-9 & caspase-3/-7 were quantified. Results are presented as means ± SEM of eight independent experiments. No significant differences were found (one-way ANOVA with Newman keuls post-hoc test). Image collected & cropped by CiteAb from the following publication

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Publications

Guo D, Liu S, Zhang J et Al. Prickle1-driven basement membrane deposition of the iPSC-derived embryoid bodies is separable from the establishment of apicobasal polarity Cell Prolif 2024-01-07 [PMID: 38185785]

Kate WD, Fanta M, Weinfeld M. et Al. Loss of the DNA repair protein, polynucleotide kinase/phosphatase, activates the type 1 interferon response independent of ionizing radiation Nucleic Acids Res 2024-09-09 [PMID: 39087523]

Vanda Balint, Mina Peric, Sanja Dacic, Danijela Stanisavljevic Ninkovic, Jelena Marjanovic, Jelena Popovic, Milena Stevanovic, Andrijana Lazic The Role of SOX2 and SOX9 Transcription Factors in the Reactivation-Related Functional Properties of NT2/D1-Derived Astrocytes. Biomedicines 2024-04-03 [PMID: 38672150]

Wang C, Terrigno M, Li J et al. Increased G3BP2-Tau interaction in tauopathies is a natural defense against Tau aggregation Neuron 2023-06-23 [PMID: 37385246]

Lin X, Fu B, Xiong Y et al. Unconventional secretion of unglycosylated ORF8 is critical for the cytokine storm during SARS-CoV-2 infection PLoS pathogens 2023-01-01 [PMID: 36689483] (WB)

Venkatramanan, S, Ibar, C Et al. TRIP6 is required for tension at adherens junctions. J Cell Sci 2021-03-11 [PMID: 33558314] (IF/IHC, Mouse)

Grotheer V, Skrynecki N, Oezel L et al. Osteogenic differentiation of human mesenchymal stromal cells and fibroblasts differs depending on tissue origin and replicative senescence Scientific reports 2021-06-07 [PMID: 34099837] (WB, Human)

Krassovka JM, Suschek CV, Prost M et al. The impact of non-toxic blue light (453 nm) on cellular antioxidative capacity, TGF-beta 1 signaling, and myofibrogenesis of human skin fibroblasts J. Photochem. Photobiol. B, Biol. 2020 -07-06 [PMID: 32659647] (WB, Human)

Srinivas C, Ramaiah MJ, Lavanya A et al Novel EPE Analogue Modulates Expression of Angiogenesis Associated microRNAs and Regulates Cell Proliferation by Targeting STAT3 in Breast Cancer PLoS ONE 2015-11-10 [PMID: 26551008] (WB, Human)

Modi, A;Singh, M;Gutti, G;Shanker, OR;Singh, VK;Singh, S;Singh, SK;Pradhan, S;Narayan, G; Benzothiazole derivative bearing amide moiety induces p53-mediated apoptosis in HPV16 positive cervical cancer cells Invest New Drugs 2019-08-20 [PMID: 31432292] (WB, Human)

Srivastava, S;Battu, MB;Khan, MZ;Nandicoori, VK;Mukhopadhyay, S; Mycobacterium tuberculosis PPE2 Protein Interacts with p67phox and Inhibits Reactive Oxygen Species Production J. Immunol. 2019-09-01 [PMID: 31375544] (WB, Mouse)

Eiraku, N;Chiba, N;Nakamura, T;Amir, MS;Seong, CH;Ohnishi, T;Kusuyama, J;Noguchi, K;Matsuguchi, T; BMP9 directly induces rapid GSK3-β phosphorylation in a Wnt-independent manner through class I PI3K-Akt axis in osteoblasts FASEB J. 2019-07-31 [PMID: 31365832]

More publications at http://www.novusbio.com/NBP2-27103

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Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449 Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

Limitations

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