

Product Datasheet

GAPDH Antibody (1A10) - BSA Free NBP1-47339

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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NBP1-47339

GAPDH Antibody (1A10) - BSA Free

Product Information	
Unit Size	0.1 ml
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	1A10
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	36 kDa

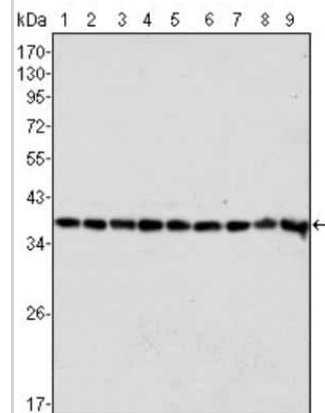
Product Description	
Description	Novus Biologicals Mouse GAPDH Antibody (1A10) - BSA Free (NBP1-47339) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and Simple Western. Anti-GAPDH Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2597
Gene Symbol	GAPDH
Species	Human, Mouse (Negative), Rat (Negative)
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 25833141).
Marker	Cytosolic Marker
Immunogen	GAPDH antibody developed against purified recombinant fragment of human GAPDH expressed in E. coli. [UniProt# P04406]

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:2000, Simple Western 1:50, Flow Cytometry 5 ug/ml, ELISA 1:10000, Immunohistochemistry 1:200-1:1000, Immunocytochemistry/ Immunofluorescence 1:200-1:1000, Immunohistochemistry-Paraffin 1:200-1:1000
Application Notes	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 1.0 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 42 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

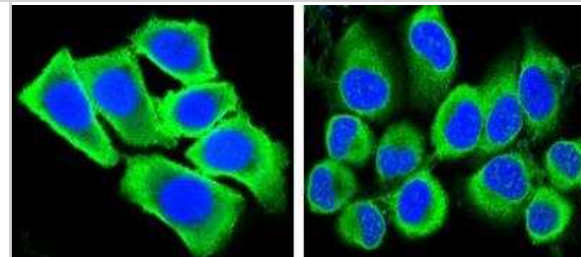


Images

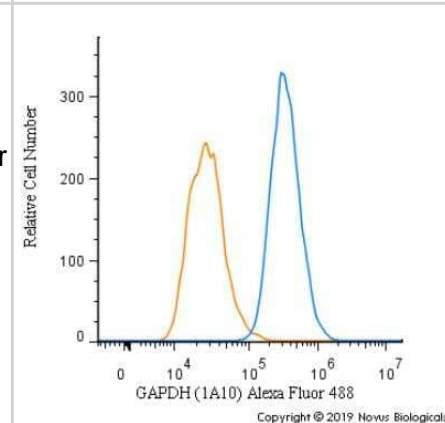
Western Blot: GAPDH Antibody (1A10) [NBP1-47339] - Analysis using anti-GAPDH mAb against HeLa (1), A549 (2), A431 (3), MCF-7 (4), K562 (5), Jurkat (6), HL60 (7), SKN-SH (8) and SKBR-3 (9) cell lysate. Theoretical molecular weight: 36 kDa.



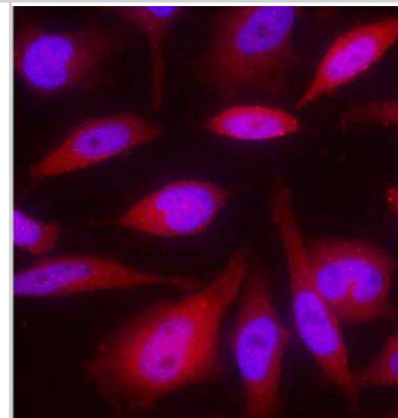
Immunocytochemistry/Immunofluorescence: GAPDH Antibody (1A10) [NBP1-47339] - Analysis of methanol-fixed HepG2 (left) and HeLa (right) cells using anti-GAPDH mAb (green), showing cytoplasmic localization. DRAQ5 fluorescent DNA dye (blue).



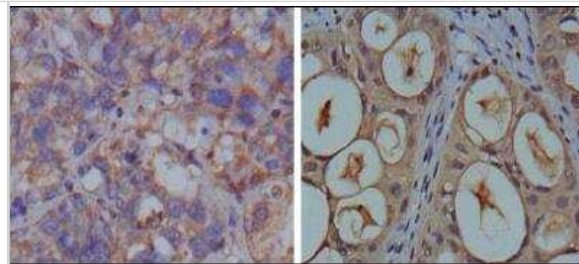
Flow Cytometry: GAPDH Antibody (1A10) [NBP1-47339] - An intracellular stain was performed on U-87 cells with GAPDH [1A10] Antibody NBP1-47339AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



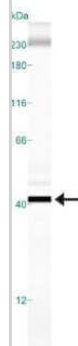
Immunocytochemistry/Immunofluorescence: GAPDH Antibody (1A10) [NBP1-47339] - GAPDH was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using 2 ug/mL of mouse anti-GAPDH monoclonal (NB300-328), 2 ug/mL mL of mouse anti- GAPDH monoclonal (NBP1-47339). Cells were stained using the appropriate secondary antibody donkey anti-mouse IgG-NL557 (NL007) and counterstained with DAPI (blue).



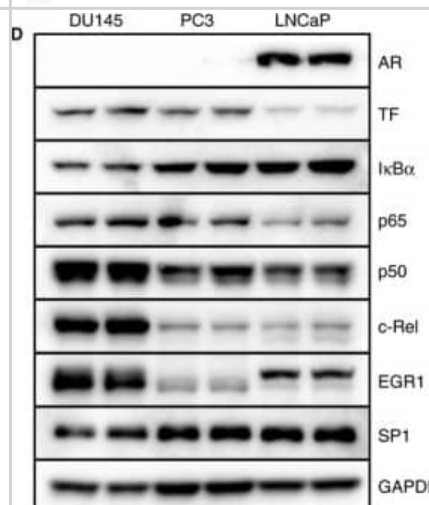
Immunohistochemistry-Paraffin: GAPDH Antibody (1A10) [NBP1-47339] - Analysis of paraffin-embedded human breast carcinoma (left) and kidney carcinoma (right), showing cytoplasmic localization using anti-GAPDH mAb with DAB staining.



Simple Western: GAPDH Antibody (1A10) [NBP1-47339] - Lane view shows a specific band for GAPDH in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Note: band observed higher than predicted 36 kDa molecular weight.



Basal tissue factor (TF) and androgen receptor (AR) mRNA expression in prostate cancer cell lines. (A) Basal TF mRNA expression levels in DU145, PC3 and LNCaP cells as determined by quantitative PCR (qPCR) (n = 6). (B) Basal AR mRNA expression levels in DU145, PC3 and LNCaP cells as determined by qPCR (n = 6). (C) Correlation analysis of basal TF mRNA expression levels with basal mRNA expression levels of AR, specificity protein 1 (SP1), early growth response protein 1 (EGR1), p65, c-Rel, IκBα, Jun and cFos mRNA (n = 6). (D) Western blot analysis of AR, TF, IκBα, p65, p50, c-Rel, EGR1, SP1 and glyceraldehyde 3-phosphate dehydrogenase (GAPDH) protein expression in DU145, PC3 and LNCaP cells. Error bars represent standard error of the mean. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/29427323>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Vitry J, Par□ G, Murru A et al. Regulation of the Expression, Oligomerisation and Signaling of the Inhibitory Receptor CLEC12A by Cysteine Residues in the Stalk Region International Journal of Molecular Sciences 2021-09-22 [PMID: 34638548] (Western Blot, Human)

Drake RR, Louey S, Thornburg KL., et Al. Intrauterine growth restriction elevates circulating acylcarnitines and suppresses fatty acid metabolism genes in the fetal sheep heart J Physiol 2021-11-21 [PMID: 34802149]

Drake RR, Louey S, Thornburg KL Maturation of Lipid Metabolism in the Fetal and Newborn Sheep Heart American journal of physiology. Regulatory, integrative and comparative physiology 2023-10-23 [PMID: 37867472]

Ercan H, Resch U, Hsu F et al. A Practical and Analytical Comparative Study of Gel-Based Top-Down and Gel-Free Bottom-Up Proteomics Including Unbiased Proteoform Detection Cells 2023-02-26 [PMID: 36899884] (Western Blot, Human)

Bhaoighill MN, Falcón-Pérez JM, Royo F et al. Tuberos Sclerosis Complex cell-derived EVs have an altered protein cargo capable of regulating their microenvironment and have potential as disease biomarkers Journal of extracellular vesicles 2023-06-01 [PMID: 37337371] (WB, Human)

Prifti DK, Lauzier A, Elowe S A commercial ARHGEF17/TEM4 antibody cross-reacts with Nuclear Mitotic Apparatus protein 1 (NuMA) PloS one 2022-07-01 [PMID: 35776709] (ICC/IF, Human)

Belardin LB, LEgarE C, Sullivan R et al. Expression of the pro-inflammatory P2Y14 receptor in the non-vasectomized and vasectomized human epididymis Andrology 2022-08-27 [PMID: 36029226] (WB, Human)

Moscovitz O, Ben-Nissan G et al. The Parkinson's-associated protein DJ-1 regulates the 20S proteasome. Nat Commun 2015-04-04 [PMID: 25833141] (WB, Mouse)

Hoesel B, Mussbacher M, Dikorman B, Salzmann M. Androgen receptor dampens tissue factor expression via NF-κB and EGR1. J. Thromb. Haemost. 2018-02-10 [PMID: 29427323] (Human)

Li Y, Zhang DW, Lin DQ, Cao LQ. Peroxisome proliferator-activated receptor-gamma inhibits pancreatic cancer cell invasion and metastasis via regulating MMP-2 expression through PTEN. Mol Med Rep. 2015-08-12 [PMID: 26299428] (WB)

Zhang Z, Jiang T, Li Q et al. Nodal activates smad and extracellular signal-regulated kinases 1/2 pathways promoting renal cell carcinoma proliferation. Mol Med Rep 2015-07-01 [PMID: 25672326]

Fuzesi-Levi MG, Ben-Nissan G, Bianchi E et al. Dynamic Regulation of the COP9 Signalosome in Response to DNA Damage. Mol. Cell. Biol. 2014-03-01 [PMID: 24421388] (WB, Human)



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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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