

Mouse GAPDH Monoclonal Antibody | anti-GAPDH antibody

GAPDH Antibody

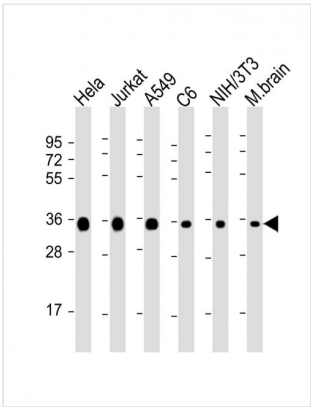
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290647	Mouse	Human, Mouse, Rat	ELISA, Western Blot

PRODUCT SYNONYMS

GAPDH; Monoclonal Antibody; GAPDH Antibody; Glyceraldehyde-3-phosphate dehydrogenase; 1.2.1.12; Peptidyl-cysteine S-nitrosylase GAPDH; 2.6.99.-; GAPD; anti-GAPDH antibody

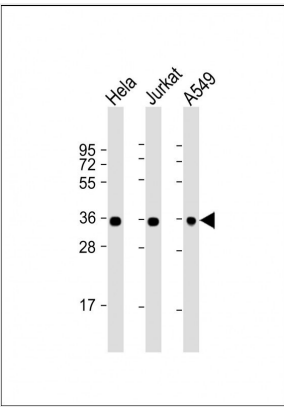
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1,k
Specificity	This GAPDH antibody is generated from a mouse immunized with a recombinant protein between 43-335 amino acids from human GAPDH.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Length	293
Applicable Applications for anti-GAPDH antibody	ELISA, WB (Western Blot)
Subtitle	Purified Mouse Monoclonal Antibody (Mab)
Cellular Location	Cytoplasm, cytosol. Nucleus. Cytoplasm, perinuclear region. Membrane. Cytoplasm, cytoskeleton. Note=Translocates to the nucleus following S- nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity). Postnuclear and Perinuclear regions.
Antigen Type	Recombinant Protein
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



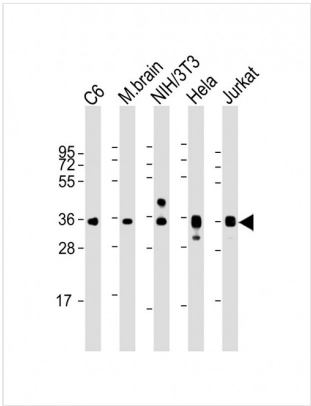
WB (Western Blot)

All lanes : Anti-GAPDH Antibody at 1:8000 dilution
Lane 1: HeLa whole cell lysate
Lane 2: Jurkat whole cell lysate
Lane 3: A549 whole cell lysate
Lane 4: C6 whole cell lysate
Lane 5: NIH/3T3 whole cell lysate
Lane 6: mouse brain lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 36 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



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ADDITIONAL INFORMATION

Related Product Information for anti-GAPDH antibody	Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC. Modulates the organization and assembly of the cytoskeleton. Facilitates the CHP1-dependent microtubule and membrane associations through its ability to stimulate the binding of CHP1 to microtubules (By similarity). Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D- glyceroyl phosphate. Component of the GAIT (gamma interferon- activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma treatment assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation.
Product Categories/Family for anti-GAPDH antibody	Stem Cells; Signal Transduction; Neuroscience; Microbiology; Metabolism; Cancer; Antibody Collections; Primary Antibodies; Crown Antibodies; Loading Control
References	Hanauer A.,et al.EMBO J. 3:2627-2633 (1984). Arcari P.,et al.Nucleic Acids Res. 12:9179-9189 (1984). Tso J.Y.,et al.Nucleic Acids Res. 13:2485-2502 (1985). Tokunaga K.,et al.Cancer Res. 47:5616-5619 (1987). Allen R.W.,et al.J. Biol. Chem. 262:649-653 (1987).

NCBI AND UNIPROT INFORMATION

NCBI GI #	378404908
NCBI GeneID	2597
NCBI Accession #	NP_001243728.1
NCBI GenBank Nucleotide #	NM_001256799.2
UniProt Accession #	P04406; P00354; Q53X65; E7EUT4
Molecular Weight	36053 Da
NCBI Official Full Name	glyceraldehyde-3-phosphate dehydrogenase isoform 2
NCBI Official Synonym Full Names	glyceraldehyde-3-phosphate dehydrogenase
NCBI Official Symbol	GAPDH
NCBI Official Synonym Symbols	G3PD; GAPD; HEL-S-162eP
NCBI Protein Information	glyceraldehyde-3-phosphate dehydrogenase
UniProt Protein Name	Glyceraldehyde-3-phosphate dehydrogenase
UniProt Gene Name	GAPDH
UniProt Synonym Gene Names	GAPD; GAPDH
UniProt Entry Name	G3P_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/gapdh-antibody-western-blot-elisa/290647>