

Mouse anti-Human GAPDH Monoclonal Antibody | anti-GAPDH antibody

GAPDH antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48359	Mouse	Human	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

GAPDH; Monoclonal Antibody; GAPDH antibody; Glyceraldehyde-3-phosphate dehydrogenase isoform 2; G3PD; GAPD; HEL-S-162eP; anti-GAPDH antibody

PRODUCT SPECIFICATIONS

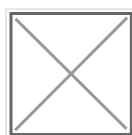
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b kappa
Clone Number	AT4E8
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) with 0.02% Sodium Azide, 10% glycerol
Concentration	0.2mg/ml (determined by BCA assay) (varies by lot)
Applicable Applications for anti-GAPDH antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen	GAPDH from rabbit muscle
Conjugation	Unconjugated
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



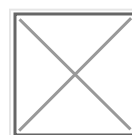
Application Data

The 293T cell lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GAPDH. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Anti-GAPDH monoclonal antibody (1:20,000) Lane 2.: Anti-GAPDH monoclonal antibody (1:10,000) Lane 3.: Anti-GAPDH monoclonal antibody (1:2,000) Lane 4.: Anti-GAPDH monoclonal antibody (1:200)



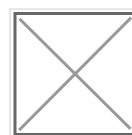
WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-GAPDH antibody (1:200). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HepG2 cell lysate Lane 2.: MCF7 cell lysate Lane 3.: Jurkat cell lysate Lane 4.: A549 cell lysate



Application Data

The tissue lysates (20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-GAPDH antibody (1:200). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Mouse Brain tissue lysate Lane 2.: Mouse Eye tissue lysate Lane 3.: Mouse Muscle tissue lysate



IF (Immunofluorescence)

ICC/IF analysis of GAPDH in HeLa cells. The cell was stained with ATGA0592 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-GAPDH antibody	Multiple roles for glyceraldehyde-3-phosphate dehydrogenase (GAPDH) have been recently appreciated. GAPDH is found in the particulate fractions, such as the nucleus, the mitochondria, and the small vesicular fractions. GAPDH gene expression is specifically increased during programmed neuronal cell death. When cells are exposed to various stressors, dynamic subcellular re-distribution of GAPDH occurs. GAPDH is also involved in various diseases, especially neurodegenerative disorders and cancers. As a membrane protein, GAPDH functions in endocytosis in the cytoplasm, it is involved in the translational control of gene expression in the nucleus, it functions in nuclear tRNA export, in DNA replication, and in DNA repair.
Product Categories/Family for anti-GAPDH antibody	Neuroscience; Antibodies
References	Chuang DM., et al, (2005) Annu Rev Pharmacol Toxicol. 45:269-90. Mazzola JL., et al, (2002) Neurotoxicology. 23(4-5):603-9. Sirover MA. (1997) J Cell Biochem. 66(2):133-40.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7669492
NCBI GeneID	2597
NCBI Accession #	NP_002037
NCBI GenBank Nucleotide #	NM_002046.5
UniProt Accession #	P04406; P00354; Q53X65; E7EUT4
Molecular Weight	Predicted: 37 kDa Observed: 36 kDa
NCBI Official Full Name	glyceraldehyde-3-phosphate dehydrogenase isoform 1
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; aging-associated gene 9 protein; peptidyl-cysteine S-nitrosylase GAPDH; epididymis secretory sperm binding protein Li 162eP
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://stage.aaabiotech.com/monoclonal/gapdh-antibody-clone-at4e8-immunofluorescence-immunocytochemistry-western-blot-elisa/48359>