

Mouse GAPDH Monoclonal Antibody | anti-GAPDH antibody

GAPDH

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76726	Mouse	Human, Mouse, Rat, Primate, Chicken, Bovine, Dog, Porcine, Equine	Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry

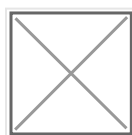
PRODUCT SYNONYMS

GAPDH; Monoclonal Antibody; anti-GAPDH antibody

PRODUCT SPECIFICATIONS

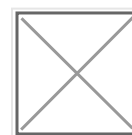
Host	Mouse
Reactivity	Human, Mouse, Rat, Primate, Chicken, Bovine, Dog, Porcine, Equine
Clonality	Monoclonal
Isotype	Mouse IgM
Form/Format	Liquid. Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3
Applicable Applications for anti-GAPDH antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	Full length protein purified from pig blood cells
Preparation and Storage	Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for sixmonths without detectable loss of activity. The antibody can be stored at 2 degree - 8 degree C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of cell line lysates probed with mouse mAb to GAPDH, AAA76726, dilution 1:2,000: [1] protein standard, [2] HEK293, [3] HeLa, [4] SH-SY5Y, [5] COS1, [6] NIH-3T3, and [7] C6 cells. The GAPDH antibody reveals a single band at ~37 kDa in all cell lines. GAPDH is a "house keeping" protein, the level of which is relatively unaffected by most experimental manipulations, and, as a result, this antibody has been widely used as a western blot loading control.



IF (Immunofluorescence)

Immunofluorescent analysis of HeLa cells stained with mouse mAb to GAPDH, AAA76726, dilution 1:100 in green. Blue is Hoechst staining of nuclear DNA. AAA76726 produces strong cytoplasmic staining of healthy cells.

ADDITIONAL INFORMATION

Related Product Information for anti-GAPDH antibody	<p>Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) is a metabolic enzyme responsible for catalyzing one step in the glycolytic pathway, the reversible oxidative phosphorylation of glyceraldehyde 3-phosphate to produce glyceraldehyde 1-3-bisphosphate. Because GAPDH protein is expressed in large amounts and is required at all times for an important "house keeping" function, levels of GAPDH mRNA are often measured and used as standards in studies of the expression of other mRNAs. Similarly specific antibodies to GAPDH are used to measure GAPDH expression as a protein standard in western blotting experiments, allowing comparison between the level of this protein and others in a cell or tissue.</p> <p>This antibody was raised against extensively purified pig GAPDH. The antibody has been widely used as a western blotting standard by many labs for many years and is known to detect GAPDH in a variety of mammalian species including human, rat and mouse. Current data suggests that the epitope for the antibody is within the peptide KYDDIKKVVVKQASEGPLKGI, amino acids 254-273 of the human sequence, a peptide which is highly conserved across mammalian species. The antibody produces a single clean band on western blots of typical cell and tissue extracts.</p>
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NCBI AND UNIPROT INFORMATION

NCBI GI #	329744642
NCBI GeneID	396823
NCBI Accession #	NP_001193288.1
NCBI GenBank Nucleotide #	NM_001206359.1
UniProt Accession #	P00355; O18816; P79299; P79317; Q29546
Molecular Weight	35,836 Da
NCBI Official Full Name	glyceraldehyde-3-phosphate dehydrogenase
NCBI Official Symbol	GAPDH
NCBI Official Synonym Symbols	GAPD
NCBI Protein Information	glyceraldehyde-3-phosphate dehydrogenase
UniProt Protein Name	Glyceraldehyde-3-phosphate dehydrogenase
UniProt Gene Name	GAPDH
UniProt Synonym Gene Names	GAPD; GAPDH

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.