

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

GAPDH antibody

CATALOG # AAA74430	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot, Immunocytochemistry, ELISA
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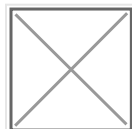
PRODUCT SYNONYMS

GAPDH; Monoclonal Antibody; GAPDH antibody; Monoclonal GAPDH; Anti-GAPDH; Glyceraldehyde-3-phosphate dehydrogenase; anti-GAPDH antibody

PRODUCT SPECIFICATIONS

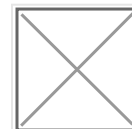
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	6C5
Specificity	Human
Purity/Purification	GAPDH antibody was purified by chromatography on protein A Sepharose.
Form/Format	PBS, pH 7.4, 0.1 % NaN ₃ .
Sequence Length	335
Applicable Applications for anti-GAPDH antibody	WB (Western Blot), ICC (Immunocytochemistry), ELISA
Biological Significance	Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) is an enzyme that catalyzes the sixth step of glycolysis and thus serves to break down glucose for energy and carbon molecules. In addition to this long established metabolic function, GAPDH has recently been implicated in several non-metabolic processes, including transcription activation, initiation of apoptosis, and ER to Golgi vesicle shuttling.
Cross-Reactivity	Dog, cat, fish, rabbit, Mouse, pig, rat
Biohazard Information	This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.
Immunogen	GAPDH antibody was raised in mouse using human or rabbit GAPDH as the immunogen.
Preparation and Storage	Store at 4 degree C

IMAGES



WB (Western Blot)

Western blot analysis using GAPDH antibody. Heart extracts were prepared from different animal species and 0.5 mg of homogenized cardiac tissue was loaded. Anti-mouse IgG (HRP) was used GAPDH immune complex visualization. Lane 1: isolated human GAPDH, 0.5 ug; Lane 2: human heart tissue extract; Lane 3: pig heart tissue extract; Lane 4: goat heart tissue extract; Lane 5: bovine heart tissue extract; Lane 6: dog heart tissue extract; Lane 7: mouse heart tissue extract; Lane 8: rat heart tissue extract; Lane 9: rabbit heart tissue extract; Lane 10: duck heart tissue extract



ELISA

ELISA calibration curve for GAPDH antibody. Antigen: Human GAPDH, Capture: GAPDH antibody served as a coating; Detection: GAPDH antibody (labelled with stable Eu³⁺ chelate).

ADDITIONAL INFORMATION

Related Product Information for anti-GAPDH antibody	Mouse monoclonal GAPDH antibody
Product Categories/Family for anti-GAPDH antibody	Cell Biology
References	Comparison of Adeno-Associated Virus Serotypes and Delivery Methods for Cardiac Gene Transfer.; Hongfei Fang, N Chin Lai, Mei Hua Gao, Atsushi Miyano-hara, David M Roth, Tong Tang, H Kirk Hammond (Hum Gene Ther Methods: Issue: 4 Page: 234-41 PMID: 22966786 DOI: 10.1089/hgtb.2012.105) Caveolin-1 overexpression enhances androgen-dependent growth and proliferation in the mouse prostate; Kelly G. Bryanta, Jeanette Camachoc, Jean-François Jasmina, Chenguang Wanga, Sankar Addyad, Mathew C. Casimirod, Paolo Fortinad, Sucharitha Balasubramaniamd, Karen E. Knudsend, Roland Schwartingc, Michael P. Lisantia, Isabelle Mercier (The International Journal of Biochemistry & Cell Biology: Volume: 43 Issue: 9 Page: 1318-1329 DOI: 10.1016/j.biocel.2011.04.019) Nuclear localization drives alpha1-adrenergic receptor oligomerization and signaling in cardiac myocytes; Casey D. Wright, Steven C. Wu, Erika F. Dahl, Alan J. Sazama, Timothy D. O'Connell (Cellular Signalling: Volume: 24 Issue: 3 Page: 794-802 DOI: 10.1016/j.cellsig.2011.11.014) Keratinprotein kinase C interaction in reactive oxygen species-induced hepatic cell death through mitochondrial signaling; Jasmin Mathew, Luc Galarneau, Anne Loranger, Stéphanie Gilbert, Normand Marceau (Free Radical Biology and Medicine: Volume: 45 Issue: 4 Page: 413-424 DOI: 10.1016/j.freeradbiomed.2008.04.031) Silica Crystals and Aluminum Salts Regulate the Production of Prostaglandin in Macrophages via NALP3 Inflammasome-Independent Mechanisms; Etsushi Kuroda, Ken J. Ishii, Satoshi Uematsu, Keiichi Ohata, Cevayir Coban, Shizuo Akira, Kosuke Aritake, Yoshihiro Urade, Yasuo Morimoto (Immunity: Volume: 34 Issue: 4 Page: 514-526 DOI: 10.1016/j.immuni.2011.03.019)

NCBI AND UNIPROT INFORMATION

NCBI GI #	7669492
NCBI GeneID	2597
NCBI Accession #	NP_002037.2
NCBI GenBank Nucleotide #	NM_002046.4
UniProt Accession #	P04406; P00354; Q53X65; E7EUT4
Molecular Weight	31,548 Da
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
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.