

Rabbit GAPDH Polyclonal Antibody | anti-GAPDH antibody

GAPDH Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA39852	Rabbit	Human, mouse, rat	Immunohistochemistry, Western Blot, ELISA

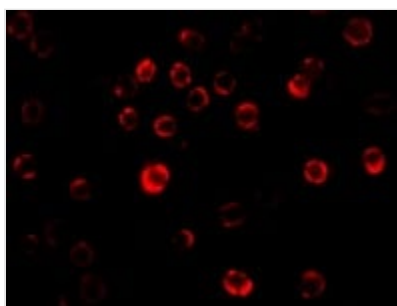
PRODUCT SYNONYMS

GAPDH; Polyclonal Antibody; GAPDH Antibody; Glyceraldehyde-3-phosphate dehydrogenase; G3PDH; GAPD; (CT) an enzyme in the glycolytic pathway; anti-GAPDH antibody

PRODUCT SPECIFICATIONS

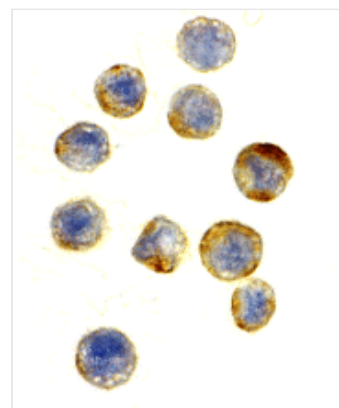
Host	Rabbit
Reactivity	Human, mouse, rat
Clonality	Polyclonal
Purity/Purification	Affinity chromatography purified via peptide column
Form/Format	Liquid. PBS containing 0.02% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	335
Applicable Applications for anti-GAPDH antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	16 amino acid peptide from near the carboxy terminus of human GAPDH.
Blocking Peptide	GAPDH Peptide
Positive Control 1	HeLa Lysate
Preparation and Storage	Store at 4 degree C for three months and -20 degree C. Stable for up to one year.

IMAGES



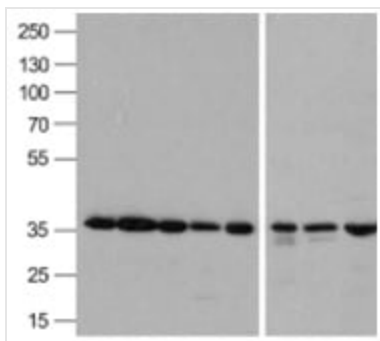
IF (Immunofluorescence)

Immunofluorescence of GAPDH in HeLa cells with GAPDH antibody at 20 μg/mL.



IHC (Immunohistochemistry)

Immunohistochemical staining of GAPDH in HeLa cells at a dilution of 10 μg/mL.



WB (Western Blot)

Western blot analysis of GAPDH in A431, Daudi, HepG2, HL60, Jurkat, Human kidney, Mouse lung, and Chicken liver lysate with GAPDH antibody 0.5 µg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-GAPDH antibody	Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD), an important energy-yielding step in carbohydrate metabolism. Recent evidence suggests that it also is involved in a number of cellular processes such as membrane fusion, phosphotransferase activity, DNA replication and repair, and nuclear RNA export. GAPDH has also been implicated in playing a role in different pathologies such as cancer progression, apoptosis, and neuronal diseases such as Alzheimer's and Huntington's disease. GAPDH is constitutively expressed at high levels in almost all tissues and cell lines making it ideal for use as a loading control marker in immunoblots.
References	* Sirover MA. New nuclear functions of the glycolytic protein, glyceraldehyde-3-phosphate dehydrogenase, in mammalian cells. J. Cell. Biochem. 2005; 95:45-52. * Glyceraldehyde-3-phosphate dehydrogenase, apoptosis, and neurodegenerative diseases. Annu. Rev. Pharmacol. Toxicol. 2005; 45:269-90.

NCBI AND UNIPROT INFORMATION

NCBI GI #	120649
NCBI GeneID	2597
UniProt Accession #	P04406; P00354; Q53X65; Q0QET7; Q16768; Q2TSD0; Q5ZEY3; Q5ZEY4
Molecular Weight	36,053 Da
NCBI Official Full Name	Glyceraldehyde-3-phosphate dehydrogenase
NCBI Official Synonym Full Names	glyceraldehyde-3-phosphate dehydrogenase
NCBI Official Symbol	GAPDH
NCBI Official Synonym Symbols	G3PD; GAPD
NCBI Protein Information	glyceraldehyde-3-phosphate dehydrogenase; aging-associated gene 9 protein; peptidyl-cysteine S-nitrosylase GAPDH
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.