

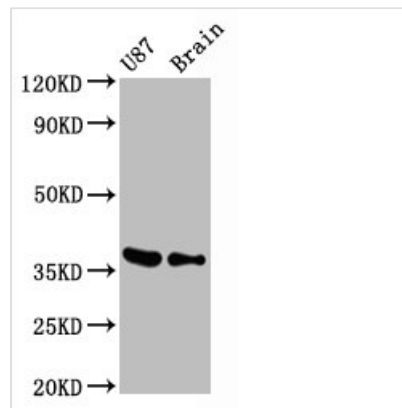


GAPDH Antibody

Product Code	CSB-RA009232A0HU
Abbreviation	Glyceraldehyde-3-phosphate dehydrogenase
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P04406
Immunogen	A synthesized peptide
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB; Recommended dilution: WB:1:3000-1:10000
Relevance	<p>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.</p>
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Glyceraldehyde-3-phosphate dehydrogenase, GAPDH, Peptidyl-cysteine S-nitrosylase GAPDH, GAPDH, GAPD, CDABP0047, OK/SW-cl.12
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	GAPDH
Accession NO.	2C2



Image



Western Blot

Positive WB detected in U87 whole cell lysate? Mouse brain tissue

All lanes GAPDH antibody at 0.31 μ g/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 36 KDa

Observed band size: 36 KDa

Description

The coding sequence for the GAPDH monoclonal antibody isolated by immunizing animals with the human GAPDH synthesized peptide was cloned into the plasmids and then transfected into cell lines for in vitro expression. The product underwent affinity-chromatography-mediated purification to get the GAPDH recombinant monoclonal antibody. This GAPDH antibody is a rabbit IgG. It is suitable for the ELISA and WB to detect GAPDH protein from human and mouse samples.

GAPDH is a glycolytic enzyme that catalyzes the conversion of glyceraldehyde 3-phosphate to 1,3-diphosphoglycerate. Apart from its role as a glycolytic enzyme, GAPDH is a pleiotropic functional protein involved in the regulation of gene expression, DNA repair, and replication, neurodegeneration, pathogenesis, virulence in bacteria, tubular bundling, protein-protein interactions, RNA export, as well as apoptosis, and autophagy.