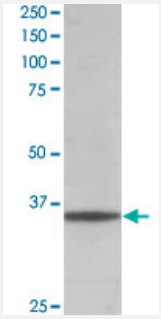
GAPDH polyclonal antibody

Catalog # PAB6637 Size 100 ug

Applications



Western Blot (Cell lysate)

GAPDH polyclonal antibody (Cat # PAB6637) staining (0.01 ug/mL) of 293 lysate (RIPA buffer, 35 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of GAPDH.
Immunogen	A synthetic peptide corresponding to C-terminus of human GAPDH.
Sequence	C-HQVVSSDFNSDT
Host	Goat
Theoretical MW (kDa)	36.1
Reactivity	Human, Mouse, Rat
Specificity	GAPDH is constitutively expressed in almost all tissues at high levels. It is therefore a useful marker when a loading/positive control is required in western blotting.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL

Recommend Usage	ELISA (1:2000) Western Blot (0.01-0.03 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — GAPDH

Entrez GeneID	2597
Protein Accession#	NP_0020.37.2
Gene Name	GAPDH
Gene Alias	G3PD, GAPD, MGC88685
Gene Description	glyceraldehyde-3-phosphate dehydrogenase
Omim ID	138400
Gene Ontology	Hyperlink
Gene Summary	The product of this gene catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorga nic phosphate and nicotinamide adenine dinucleotide (NAD). The enzyme exists as a tetramer of identical chains. Many pseudogenes similar to this locus are present in the human genome. [provi ded by RefSeq
Other Designations	OTTHUMP00000174431|OTTHUMP00000174432|aging-associated gene 9 protein|glyceraldehy de 3-phosphate dehydrogenase

Publication Reference

- Endocytosis of Streptococcus pneumoniae via the polymeric immunoglobulin receptor of epithelial cells relies on clathrin and caveolin dependent mechanisms.

  Asmat TM, Agarwal V, Saleh M, Hammerschmidt S.

  International Journal of Medical Microbiology 2014 Nov; 304(8):1233.

  Application: WB-Tr, Human, Calu-3 cells

- Polymeric Immunoglobulin Receptor-mediated Invasion of Streptococcus pneumoniae into Host Cells Requires a Coordinate Signaling of SRC Family of Protein-tyrosine Kinases, ERK, and c-Jun N-terminal Kinase.

  Agarwal V, Asmat TM, Dierdorf NI, Hauck CR, Hammerschmidt S.

  The Journal of Biological Chemistry 2010 Nov; 285(46):35615.

  Application: WB, Human, Calu-3 epithelial cells

- Molecular characterization and functional analysis of phagocytosis by human embryonic stem cell-derived RPE cells using a novel human retinal assay.

  Carr AJ, Vugler A, Lawrence J, Chen LL, Ahmado A, Chen FK, Semo M, Gias C, da Cruz L, Moore HD, Walsh J, Coffey PJ.

  Molecular Vision 2009 Feb; 15:283.

- Defined carboxy-terminal fragments of insulin-like growth factor (IGF) binding protein-2 exert similar mitogenic activity on cultured rat growth plate chondrocytes as IGF-I.

  Kiepe D, Van Der Pas A, Ciarmatori S, Standker L, Schutt B, Hoeflich A, Hugel U, Oh J, Tonshoff B.

  Endocrinology 2008 Jun; 149(10):4901.

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Biosynthesis of alkaloids derived from ornithine
- Biosynthesis of alkaloids derived from shikimate pathway
- Biosynthesis of alkaloids derived from terpenoid and polyketide
- Biosynthesis of phenylpropanoids
- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids

- Glycolysis / Gluconeogenesis
- Metabolic pathways

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Metabolic Syndrome X
- Neoplasms
- Nerve Degeneration
- Osteoporosis