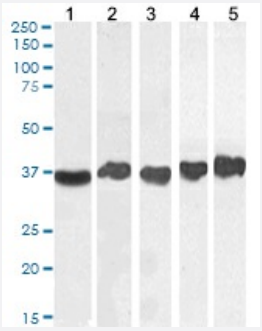
GAPDH polyclonal antibody

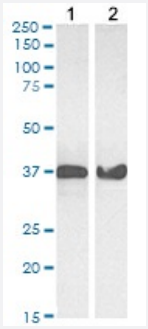
Catalog # PAB6936 Size 100 ug

Applications



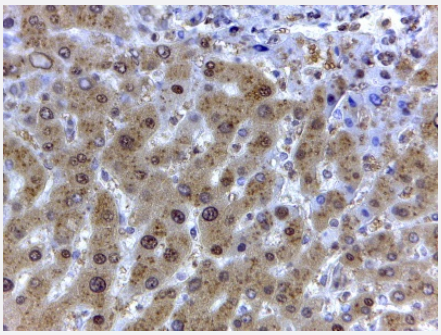
Western Blot (Tissue lysate)

GAPDH polyclonal antibody (Cat # PAB6936) (0.1 ug/mL) staining of Human Liver (1), (0.03 ug/mL) Testes (2), Tonsil (3), (0.1 ug/mL) Mouse Liver (4), (0.03 ug/mL) Rat Heart (5) lysate (35 ug protein in RIPA buffer). Detected by chemiluminescence.



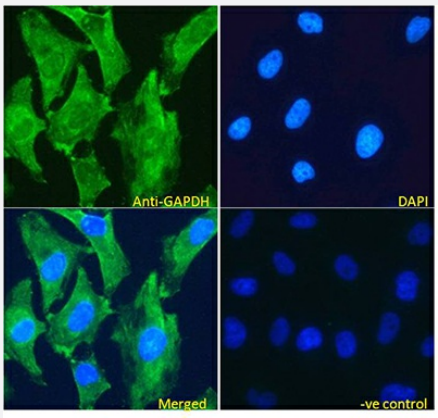
Western Blot (Cell lysate)

GAPDH polyclonal antibody (Cat # PAB6936) (0.03 ug/mL) staining of HeLa (1) and NIH3T3 (2) cell lysate (35 ug protein in RIPA buffer). Detected by chemiluminesce



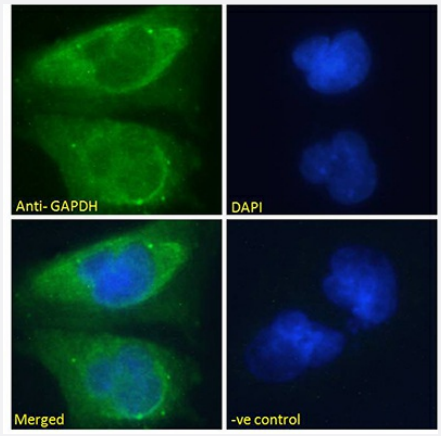
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

GAPDH polyclonal antibody (Cat # PAB6936) (2 ug/mL) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.



Immunofluorescence

GAPDH polyclonal antibody (Cat # PAB6936) Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (5 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic and plasma membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (5 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



Immunofluorescence

GAPDH polyclonal antibody (Cat # PAB6936) Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic and vesicle staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of GAPDH.
Immunogen	A synthetic peptide corresponding to internal region of human GAPDH.
Sequence	C-GVNHEKYDNSLK
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 (1:16000) Immunofluorescence (5-10 ug/mL) Immunohistochemistry(2 ug/mL) Western Blot (0.03-0.1 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.

Applications

- Western Blot (Tissue lysate)

  GAPDH polyclonal antibody (Cat # PAB6936) (0.1 ug/mL) staining of Human Liver (1), (0.03 ug/mL) Testes (2), Tonsil (3), (0.1 ug/mL) Mouse Liver (4), (0.03 ug/mL) Rat Heart (5) lysate (35 ug protein in RIPA buffer). Detected by chemiluminescence.

- Western Blot (Cell lysate)

  GAPDH polyclonal antibody (Cat # PAB6936) (0.03 ug/mL) staining of HeLa (1) and NIH3T3 (2) cell lysate (35 ug protein in RIPA buffer). Detected by chemiluminesce

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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 inorganic 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. [provided by RefSeq
Other Designations	OTTHUMP00000174431|OTTHUMP00000174432|aging-associated gene 9 protein|glyceraldehyde 3-phosphate dehydrogenase

Publication Reference

- Mind bomb 2 limits inflammatory dermatitis in Sharpin mutant mice independently of cell death.

  Daniel S Simpson, Holly Anderton, Jumana Yousef, Vineet Vaibhav, Simon A Cobbold, Esther Bandala-Sanchez, Andrew J Kueh, Laura F Dagley, Marco J Herold, John Silke, James E Vince, Rebecca Feltham.

  PNAS Nexus 2023 Dec; 3(1):pgad438.

  Application: WB, Mice, Mice Skin tissue

- Structural analysis of human liver glyceraldehyde-3-phosphate dehydrogenase.

  Ismail SA, Park HW.

  Acta Crystallographica. Section D, Biological Crystallography 2005 Nov; 61(Pt 11):1508.

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