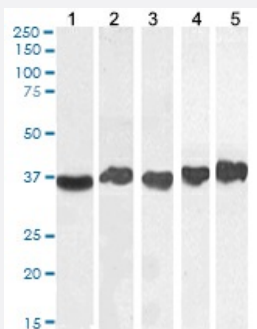


# GAPDH polyclonal antibody

Catalog # PAB6936

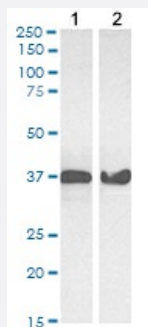
Size 100 ug

## Applications



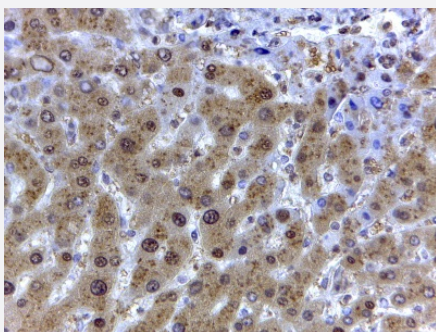
### Western Blot (Tissue lysate)

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.



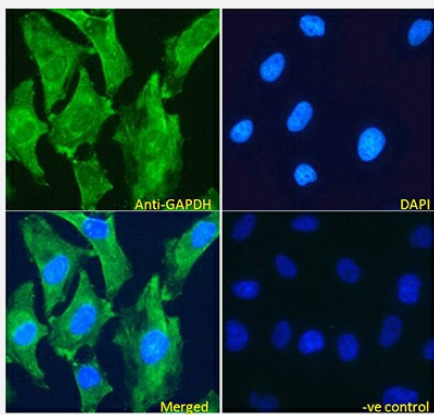
### Western Blot (Cell lysate)

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 chemiluminescence.



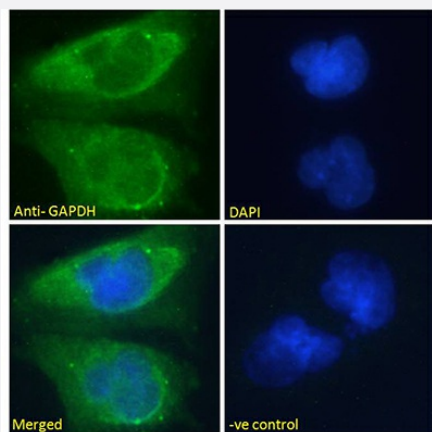
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

<b>Recommend Usage</b>	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.
<b>Storage Buffer</b>	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
<b>Storage Instruction</b>	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should 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 chemiluminescence.

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- 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).

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — GAPDH

Entrez GeneID	<a href="#">2597</a>
Protein Accession#	<a href="#">NP_0020.37.2</a>
Gene Name	GAPDH
Gene Alias	G3PD, GAPD, MGC88685
Gene Description	glyceraldehyde-3-phosphate dehydrogenase
Omim ID	<a href="#">138400</a>
Gene Ontology	<a href="#">Hyperlink</a>
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](#)