

# GAPDH Antibody

Catalog No: #48358



Package Size: #48358-1 50ul #48358-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

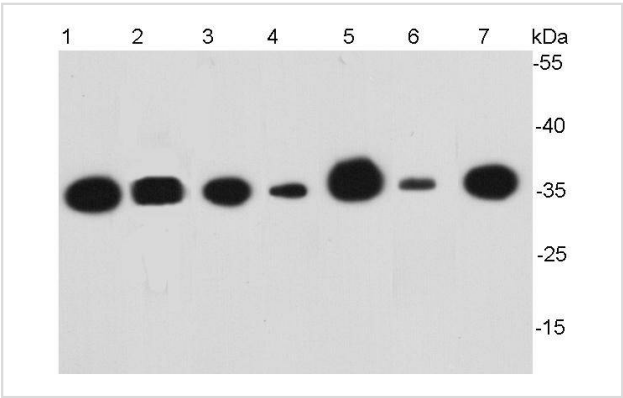
## Description

Product Name	GAPDH Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	5-E10
Purification	ProL affinity purified
Applications	WB, ICC
Species Reactivity	Hu,Ms,Rt,Zebrafish,rabbit
Immunogen Description	peptide
Other Names	38 kDa BFA-dependent ADP-ribosylation substrate antibody aging associated gene 9 protein antibody Aging-associated gene 9 protein antibody BARS-38 antibody cb609 antibody EC 1.2.1.12 antibody Epididymis secretory sperm binding protein Li 162eP antibody G3P_HUMAN antibody G3PD antibody G3PDH antibody GAPD antibody GAPDH antibody Glyceraldehyde 3 phosphate dehydrogenase antibody Glyceraldehyde-3-phosphate dehydrogenase antibody HEL-S-162eP antibody KNC-NDS6 antibody MGC102544 antibody MGC102546 antibody MGC103190 antibody MGC103191 antibody MGC105239 antibody MGC127711 antibody MGC88685 antibody OCAS, p38 component antibody OCT1 coactivator in S phase, 38-KD component antibody peptidyl cysteine S nitrosylase GAPDH antibody Peptidyl-cysteine S-nitrosylase GAPDH antibody wu:fb33a10 antibody
Accession No.	Swiss-Prot#:P04406
Calculated MW	36 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

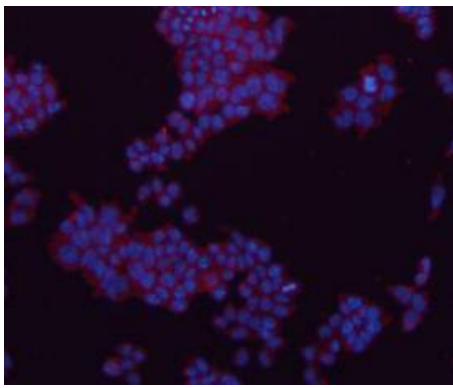
## Application Details

WB: 1:5,000-1:10,000 ICC: 1:200

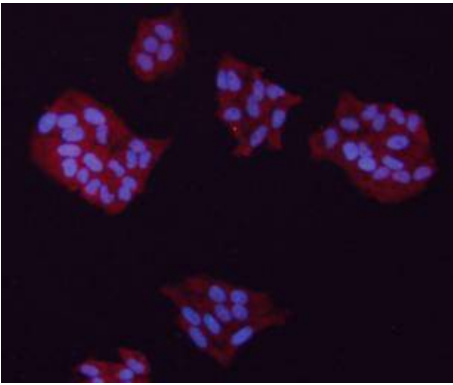
## Images



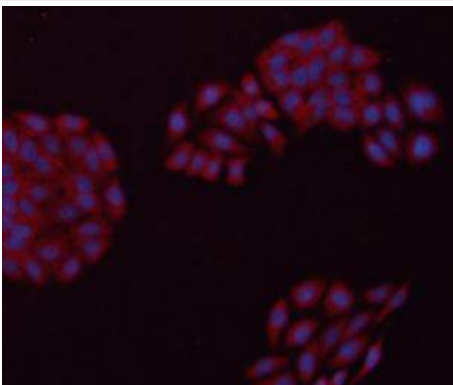
Western blot analysis of GAPDH on different cell lysates using anti-GAPDH antibody at 1/5000 dilution.  
Positive control: Lane 1: HepG2 Lane 2: Hela Lane 3: PC12 Lane 4: NIH/3T3 Lane 5: MCF-7 Lane 6: Rabbit liver Lane 7:Zebrafish



ICC staining GAPDH in F9 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GAPDH in HeLa cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GAPDH in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

GAPDH (Glyceraldehyde-3-phosphate dehydrogenase) has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. It participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. GAPDH 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.

## References

- 1."The glyceraldehyde 3 phosphate dehydrogenase gene family: structure of a human cDNA and of an X chromosome linked pseudogene; amazing complexity of the gene family in mouse." Hanauer A., Mandel J.-L. EMBO J. 3:2627-2633(1983)
- 2."Enhanced expression of a glyceraldehyde-3-phosphate dehydrogenase gene in human lung cancers." Tokunaga K., Nakamura Y., Sakata K., Fujimori K., Ohkubo M., Sawada K., Sakiyama S. Cancer Res. 47:5616-5619(1986)
- 3."Glyceraldehyde-3-phosphate dehydrogenase is phosphorylated by protein kinase Ciota /lambda and plays a role in microtubule dynamics in the early secretory pathway." Tisdale E.J.J. Biol. Chem. 277:3334-3341(2001)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.