Product Datasheet

GAPDH Antibody

Catalog No: #48358

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

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

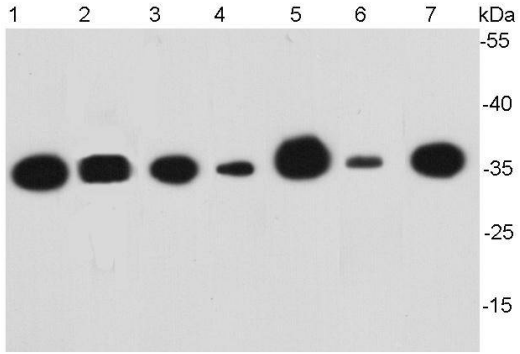
Description

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
Conjugates	Unconjugated
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

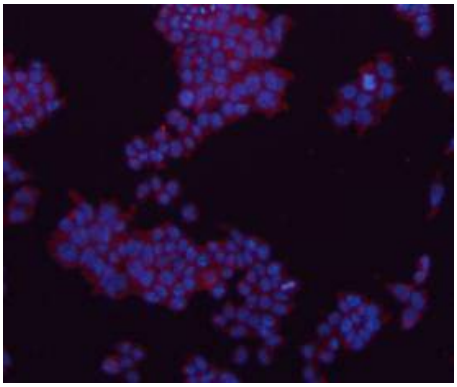
Application Details

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

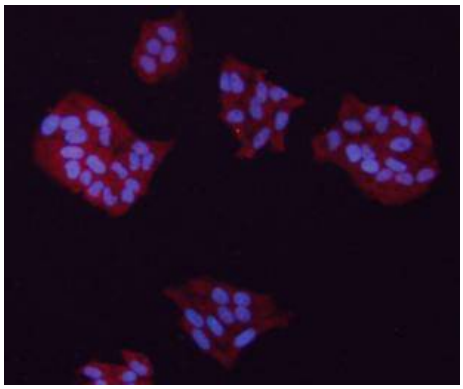
Images



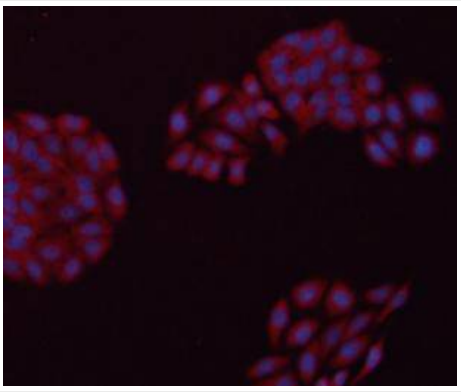
Western blot analysis of GAPDH on different cell lysates using anti-GAPDH antibody at 1/5000 dilution.
Positive control: Lane 1: HepG2 Lane 2: Hela Lane 3: PC12 Lane 4: NIH/3T3 Lane 5: MCF-7 Lane 6: Rabbit liver Lane 7:Zebrafish



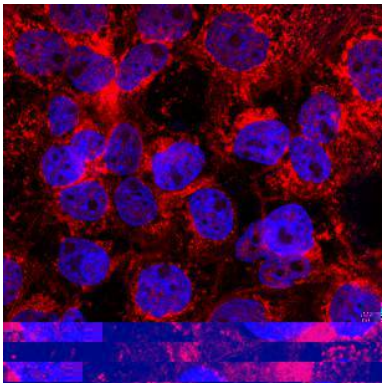
ICC staining GAPDH in F9 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



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.



ICC staining of GAPDH in A431 cells (red). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with the primary antibody for 1 hour at room temperature, washed with PBS. Alexa Fluor 555 Goat anti-Mouse IgG was used as the secondary antibody at 1/100 dilution. The nuclear counter stain is DAPI (blue).

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)

Published Papers

Wang Yun, Chen Shuzhao, Liang Zhijian, Gale Robert Peter, Liu Shutong, Chen Xiaoqin, Chi Peidong, Song Yiling, Zhang Yingchun, Wang Weida, Li Juan, Xia Zhongjun, Liang Yang, Huang Xiaojun el at., The bone marrow immune ecosystem shapes daratumumab acquired resistance in plasma cell myeloma: MULTIPLE MYELOMA, GAMMOPATHIES, Leukemia, (2025)

PMID:40750676