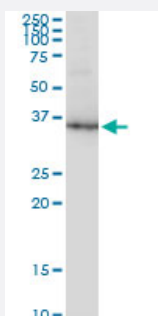


GAPDH monoclonal antibody (M01), clone 3C2

Catalog # H00002597-M01

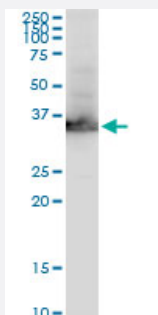
Size 100 ug

Applications



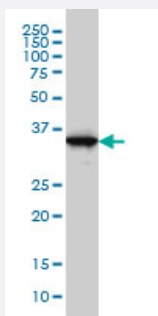
Western Blot (Cell lysate)

GAPDH monoclonal antibody (M01), clone 3C2. Western Blot analysis of GAPDH expression in NIH/3T3(Cat # L018V1).



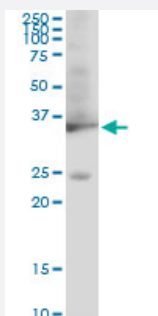
Western Blot (Cell lysate)

GAPDH monoclonal antibody (M01), clone 3C2. Western Blot analysis of GAPDH expression in Raw 264.7(Cat # L024V1).



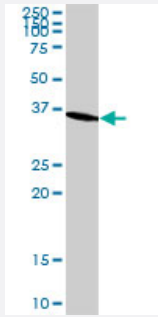
Western Blot (Cell lysate)

GAPDH monoclonal antibody (M01), clone 3C2 Western Blot analysis of GAPDH expression in A-431 (Cat # L015V1).



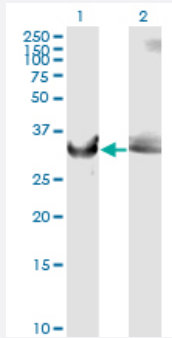
Western Blot (Cell lysate)

GAPDH monoclonal antibody (M01), clone 3C2. Western Blot analysis of GAPDH expression in PC-12(Cat # L012V1).



Western Blot (Cell lysate)

GAPDH monoclonal antibody (M01), clone 3C2. Western Blot analysis of GAPDH expression in HeLa (Cat # L013V1).

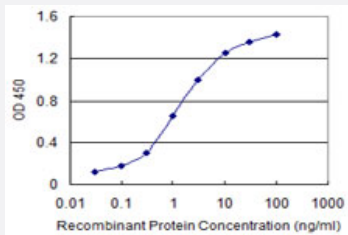


Western Blot (Transfected lysate)

Western Blot analysis of GAPDH expression in transfected 293T cell line by GAPDH monoclonal antibody (M01), clone 3C2.

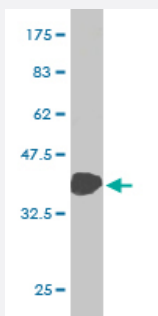
Lane 1: GAPDH transfected lysate(36.1 KDa).

Lane 2: Non-transfected lysate.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GAPDH is 0.03 ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant GAPDH.

Immunogen

GAPDH (NP_002037, 226 a.a. ~ 335 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence	GKLTGMAFRVPTANVSVVDLTCRLEKPAKYDDIKKVVVKQASEGPLKGILGYTEHQVVSSDFNSDT HSSTFDAGAGIALNDHFVKLISWYDNEFGYSNRVVDLMAHMASKE
Host	Mouse
Reactivity	Human, Mouse, Rat
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

GAPDH monoclonal antibody (M01), clone 3C2. Western Blot analysis of GAPDH expression in NIH/3T3(Cat # L018V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

GAPDH monoclonal antibody (M01), clone 3C2. Western Blot analysis of GAPDH expression in Raw 264.7(Cat # L024V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

GAPDH monoclonal antibody (M01), clone 3C2 Western Blot analysis of GAPDH expression in A-431 (Cat # L015V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

GAPDH monoclonal antibody (M01), clone 3C2. Western Blot analysis of GAPDH expression in PC-12(Cat # L012V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

GAPDH monoclonal antibody (M01), clone 3C2. Western Blot analysis of GAPDH expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of GAPDH expression in transfected 293T cell line by GAPDH monoclonal antibody (M01), clone 3C2.

Lane 1: GAPDH transfected lysate(36.1 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GAPDH is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — GAPDH

Entrez GeneID [2597](#)

GeneBank Accession# [NM_002046](#)

Protein Accession# [NP_002037](#)

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

- [Acyl-Coenzyme A Synthetase Long-Chain Family Member 4 Is Involved in Viral Replication Organelle Formation and Facilitates Virus Replication via Ferroptosis.](#)

Yu-An Kung, Huan-Jung Chiang, Mei-Ling Li, Yu-Nong Gong, Hsin-Ping Chiu, Chuan-Tien Hung, Peng-Nien Huang, Sheng-Yu Huang, Pei-Yu Wang, Tsu-An Hsu, Gary Brewer, Shin-Ru Shih.

Mbio 2022 Jan; 13(1):e0271721.

Application: WB-Tr, Human, A-549 cells

- [Experimental study of expression profile and specific role of human microRNAs in regulating atrophic bone nonunion.](#)

Junqiang Wei, Hua Chen, Yangmu Fu, Boxun Zhang, Lihai Zhang, Sheng Tao, Feng Lin.

Medicine 2020 Sep; 99(36):e21653.

Application: WB-Tr, Human, Human bone marrow stromal cells

- [Rosmarinic Acid Exhibits Broad Anti-Enterovirus A71 Activity by Inhibiting the Interaction between the Five-Fold Axis of Capsid VP1 and Cognate Sulfated Receptors.](#)

Chung-Fan Hsieh, Jia-Rong Jheng, Guan-Hua Lin, Yu-Li Chen, Jin-Yuan Ho, Chien-Jou Liu, Kuei-Yang Hsu, Yuan-Siao Chen, Yoke Fun Chan, Hui-Ming Yu, Pei-Wen Hsieh, Jyh-Haur Chern, Jim-Tong Horng.

Emerging Microbes & Infections 2020 May; 9(1):1194.

Application: WB, Human, RD cells

- [Mannose receptor is an HIV restriction factor counteracted by Vpr in macrophages.](#)

Lubow J, Virgilio MC, Merlino M, Collins DR, Mashiba M, Peterson BG, Lukic Z, Painter MM, Gomez-Rivera F, Terry V, Zimmerman G, Collins KL.

Elife 2020 Mar; 9:e51035.

Application: WB-Ce, Human, Monocyte derived macrophages

- [GNS561, a new lysosomotropic small molecule, for the treatment of intrahepatic cholangiocarcinoma.](#)

Brun S, Bassissi F, Serdjebi C, Novello M, Tracz J, Autelitano F, Guillemot M, Fabre P, Courcambeck J, Ansaldi C, Raymond E, Halfon P.

Investigational New Drugs 2019 Dec; 37(6):1135.

Application: WB, Human, RBE cells

- [ISGF3 with reduced phosphorylation is associated with constitutive expression of interferon-induced genes in aging cells.](#)

Yamagami M, Otsuka M, Kishikawa T, Sekiba K, Seimiya T, Tanaka E, Suzuki T, Ishibashi R, Ohno M, Koike K.

NPJ Aging and Mechanisms of Disease 2018 Nov; 4:11.

Application: WB, Human, Huh7 cells, Human dermal fibroblasts

- [A large-scale proteomic identification of targets of cellular miR-197 downregulated by enterovirus A71.](#)

Tang WF, Huang RT, Chien KY, Tang P, Horng JT.

Journal of Proteome Research 2018 Oct; [Epub].

Application: WB-Tr, Human, RD cells

- [A novel role of ER stress signal transducer ATF6 in regulating enterovirus A71 viral protein stability.](#)

Jheng JR, Lau KS, Lan YW, Horng JT.

Journal of Biomedical Science 2018 Jan; 25(1):9.

Application: WB-Ce, Human, RD cells

- [Inhibition of autolysosome formation in host autophagy by Trypanosoma cruzi infection.](#)

Onizuka Y, Takahashi C, Uematsu A, Shinjo S, Seto E, Nakajima-Shimada J.

Acta Tropica 2017 Feb; 170:57.

Application: WB, Human, HT1080 cells

- [Supplementation of strontium to a chondrogenic medium promotes chondrogenic differentiation of human dedifferentiated fat cells.](#)

Okita N, Honda Y, Kishimoto N, Liao W, Azumi E, Hashimoto Y, Matsumoto N.

Tissue Engineering. Part A 2015 Sep; 21(9-10):1695.

Application: WB-Ce, Human, DFAT-A cells

- [RacGTPase-activating protein 1 interacts with hepatitis C virus polymerase NS5B to regulate viral replication.](#)

Wu MJ, Ke PY, Horng JT.

Biochemical and Biophysical Research Communications 2014 Nov; 454(1):19.

Application: WB-Tr, Human, Huh7 cells

- [Radioprotective effects of genistein on HL-7702 cells via the inhibition of apoptosis and DNA damage.](#)

Song L, Ma L, Cong F, Shen X, Jing P, Ying X, Zhou H, Jiang J, Yan H.

Cancer Letters 2015 Sep; 366(1):100.

Application: WB, Human, Embryo liver L-02 cells

- [miR-106b is overexpressed in medulloblastomas and interacts directly with PTEN.](#)

Li KK, Xia T, Ma FM, Zhang R, Mao Y, Wang Y, Zhou L, Lau KM, Ng HK.

Neuropathology and Applied Neurobiology 2015 Feb; 41(2):145.

Application: WB-Ce, Human, DAOY, ONS-76 cells

- [Reticulon 3 interacts with NS4B of the hepatitis C virus and negatively regulates viral replication by disrupting NS4B self-interaction.](#)

Wu MJ, Ke PY, Hsu JT, Yeh CT, Horng JT.

Cellular Microbiology 2014 Nov; 16(11):1603.

Application: WB-Tr, Human, AVA5, Huh7 cells

- [Receptor for Activated Protein Kinase C: Requirement for Efficient MicroRNA Function and Reduced Expression in Hepatocellular Carcinoma.](#)

Otsuka M, Takata A, Yoshikawa T, Kojima K, Kishikawa T, Shibata C, Takekawa M, Yoshida H, Omata M, Koike K.

PLoS One 2011 Sep; 6(9):e24359.

Application: WB-Tr, Human, Huh7 cells

- [Expression and roles of Slit/Robo in human ovarian cancer.](#)

Dai CF, Jiang YZ, Li Y, Wang K, Liu PS, Patankar MS, Zheng J.

Histochemistry and Cell Biology 2011 May; 135(5):475.

Application: WB, Human, OVCAR-3, SKOV-3 cells

- [Anti-angiogenic effect of triterpenoidal saponins from Polygala senega.](#)

Arai M, Hayashi A, Sobou M, Ishida S, Kawachi T, Kotoku N, Kobayashi M.

Journal of Natural Medicines 2011 Jan; 65(1):149.

Application: WB, Human, HUVECs

- [The Effect of Allelic Variation in Aldo-Keto Reductase 1C2 on the In Vitro Metabolism of Dihydrotestosterone.](#)

Takahashi RH, Grigliatti TA, Reid RE, Riggs KW.

The Journal of Pharmacology and Experimental Therapeutics 2009 Jun; 329(3):1032.

Application: WB-Tr, Insect, Sf9, T.ni cells

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](#)