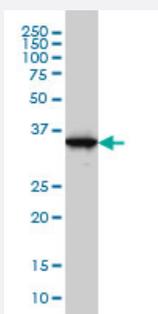


# GAPDH monoclonal antibody (M01), clone 3C2

Catalog # H00002597-M01

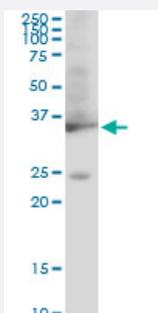
Size 100 ug

## Applications



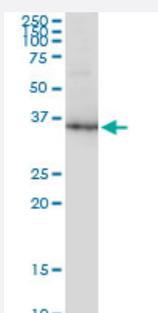
### Western Blot (Cell lysate)

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



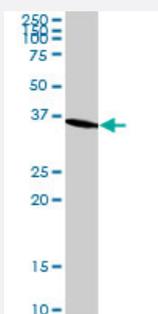
### Western Blot (Cell lysate)

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



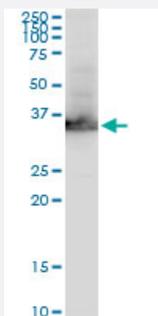
### Western Blot (Cell lysate)

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



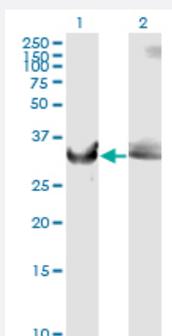
### Western Blot (Cell lysate)

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



### Western Blot (Cell lysate)

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

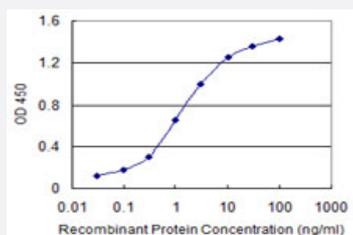


### Western Blot (Transfected lysate)

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

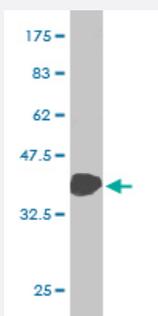
Lane 1: GAPDH transfected lysate(36.1 KDa).

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.

<b>Sequence</b>	GKLTGMAFRVPTANVSVVDLTCRLEKPAKYDDIKKVVVKQASEGPLKGLGYTEHQVVSDFNSDT HSSTFDAGAGIALNDHFVKLISWYDNEFGYSNRVVDLMAHMASKE
<b>Host</b>	Mouse
<b>Reactivity</b>	Human, Mouse, Rat
<b>Isotype</b>	IgG1 Kappa
<b>Quality Control Testing</b>	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
<b>Storage Buffer</b>	In 1x PBS, pH 7.4
<b>Storage Instruction</b>	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 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 NIH/3T3(Cat # L018V1 ).

[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 (Cell lysate)

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

[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.](#)

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

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

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

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

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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.

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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.

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

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Application: WB-Tr, Human, RD cells
- [A novel role of ER stress signal transducer ATF6 in regulating enterovirus A71 viral protein stability.](#)  
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Application: WB-Ce, Human, RD cells
- [Inhibition of autolysosome formation in host autophagy by Trypanosoma cruzi infection.](#)  
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Okita N, Honda Y, Kishimoto N, Liao W, Azumi E, Hashimoto Y, Matsumoto N.  
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Application: WB-Ce, Human, DFAT-A cells
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Application: WB-Tr, Human, Huh7 cells
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Application: WB-Tr, Human, Huh7 cells

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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](#)