

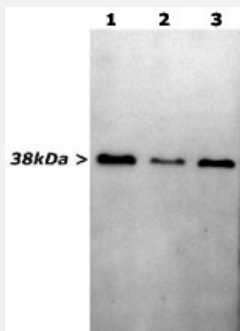
GAPDH monoclonal antibody, clone 1D4

Catalog # MAB2319

Size 100 uL

Applications

Western Blot (Tissue lysate)



Sciatic nerves of mouse wild type (1), heterozygous (2) and homozygous (3) for knock out of peripheral myelin protein 21 (pmp21) were homogenized in SDS-PAGE sample buffer and run out for western blots.

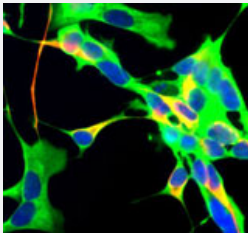
Blots were probed with GAPDH monoclonal antibody, clone 1D4 (Cat # MAB2319) to glyceraldehyde 3-phosphate dehydrogenase (GAPDH).

Antibody was used at dilution of 1 : 1,000.

Signal was revealed in a few seconds with chemiluminescence, indicating that lower antibody concentrations would also have worked well.

Note the sharp clear band at 38 KDa, the expected molecular weight for GAPDH.

Immunofluorescence



Human neuroblastoma line Sh-SY5Y stained with GAPDH monoclonal antibody, clone 1D4 (Cat # MAB2319) (green) and an anti-NF-H (red), counterstained with a fluorescent DNA probe (blue).

Specification

Product Description	Mouse monoclonal antibody raised against GAPDH.
Immunogen	Pig GAPDH.
Host	Mouse
Theoretical MW (kDa)	37

Reactivity	Birds, Bovine, Human, Mouse, Pig, Rat
Specificity	On Western Blot reveals a prominent ~37 KDa band.
Form	Liquid
Isotype	IgM
Quality Control Testing	Antibody Reactive Against GAPDH.
Recommend Usage	Immunofluorescence (1:100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In tissue culture supernatant (10 mM sodium azide)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Sciatic nerves of mouse wild type (1), heterozygous (2) and homozygous (3) for knock out of peripheral myelin protein 21 (pmp21) were homogenized in SDS-PAGE sample buffer and run out for western blots.

Blots were probed with GAPDH monoclonal antibody, clone 1D4 (Cat # MAB2319) to glyceraldehyde 3-phosphate dehydrogenase (GAPDH).

Antibody was used at dilution of 1 : 1,000.

Signal was revealed in a few seconds with chemiluminescence, indicating that lower antibody concentrations would also have worked well.

Note the sharp clear band at 38 KDa, the expected molecular weight for GAPDH.

- Immunocytochemistry

- Immunofluorescence

Human neuroblastoma line Sh-SY5Y stained with GAPDH monoclonal antibody, clone 1D4 (Cat # MAB2319) (green) and an anti-NF-H (red), counterstained with a fluorescent DNA probe (blue).

Gene Info — GAPDH

Entrez GeneID [396823](#)

Gene Name GAPDH

Gene Alias	GAPD
Gene Description	glyceraldehyde-3-phosphate dehydrogenase
Gene Ontology	Hyperlink
Other Designations	-

Publication Reference

- [2-amino-N-{4-\[5-\(2-phenanthrenyl\)-3-\(trifluoromethyl\)-1H-pyrazol-1-yl\]-phenyl} acetamide \(OSU-03012\), a celecoxib derivative, directly targets p21-activated kinase.](#)

Porchia LM, Guerra M, Wang YC, Zhang Y, Espinosa AV, Shinohara M, Kulp SK, Kirschner LS, Saji M, Chen CS, Ringel MD.
Molecular Pharmacology 2007 Aug; 72(5):1124.

- [Apoptotic surge of potassium currents is mediated by p38 phosphorylation of Kv2.1.](#)

Redman PT, He K, Hartnett KA, Jefferson BS, Hu L, Rosenberg PA, Levitan ES, Aizenman E.
PNAS 2007 Feb; 104(9):3568.

Application: WB-Ce, Rat, Rat cortical neurons

- [NAD\(P\)H oxidases regulate HIF-2alpha protein expression.](#)

Block K, Gorin Y, Hoover P, Williams P, Chelmicki T, Clark RA, Yoneda T, Abboud HE.
The Journal of Biological Chemistry 2007 Mar; 282(11):8019.

Application: WB-Tr, Human, HK2, RCC 786-O cells

- [Pluronic L81 enhances triacylglycerol accumulation in the cytosol and inhibits chylomicron secretion.](#)

Fatma S, Yakubov R, Anwar K, Hussain MM.
Journal of Lipid Research 2006 Nov; 47(11):2422.

Application: WB, Human, Caco-2 cells

- [Mitogen-activated protein kinases control cardiac KChIP2 gene expression.](#)

Jia Y, Takimoto K.
Circulation Research 2006 Feb; 98(3):386.

Application: WB-Ti, Rat, Rat hearts