

GAPDH Monoclonal Antibody (1D4)

Product Details

Size	100 µL
Species Reactivity	Avian, Bovine, Dog, Chicken, Fruit fly, Horse, Cat, Hamster, Human, Marsupial, Mouse, Non-human primate, Sheep, Pig, Rabbit, Rat, Zebrafish
Published Species	Rat, Bovine, Human, Mouse
Host/Isotype	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	1D4
Conjugate	Unconjugated
Immunogen	Extensively purified pig GAPDH.
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS with 50% glycerol
Contains	5mM sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_568547

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	17 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	1:100	2 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	Assay-Dependent	-
ChIP assay (ChIP)	1:10 -1:500	-
GST Pull Down (GPD)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

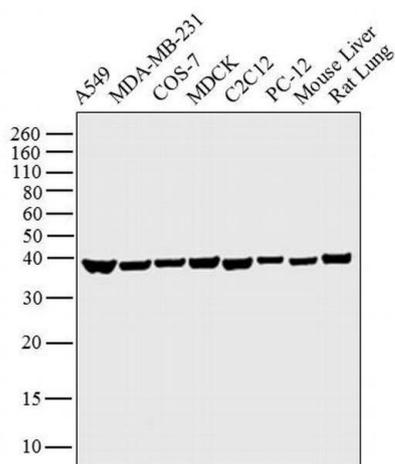
This antibody is likely to react with most mammals.

Suggested positive control: antigen standard for GAPDH (transient overexpression lysate).

Product Images For GAPDH Monoclonal Antibody (1D4)

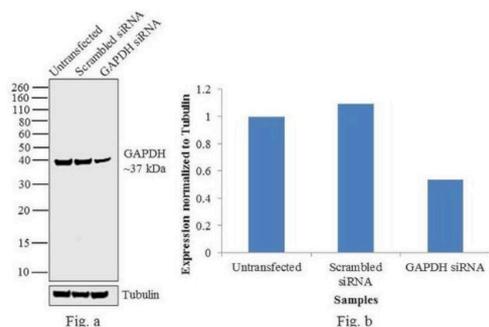
GAPDH Antibody (MA1-16757) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A549 (Lane 1), MDA-MB-231 (Lane 2), COS-7 (Lane 3), MDCK (Lane 4), C2C12 (Lane 5), PC-12 (Lane 6) and tissue extracts (30 µg lysate) of Mouse Liver (Lane 7) and Rat Lung (Lane 8). The blot was probed with Anti-GAPDH Monoclonal Antibody (Product # MA1-16757, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 37 kDa band corresponding to GAPDH was observed across the cell lines and tissue extracts tested.



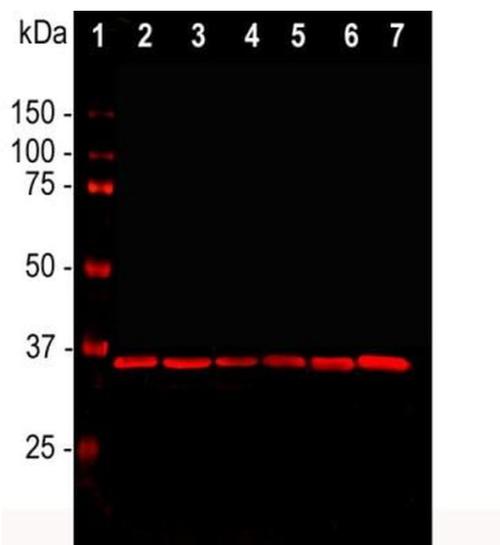
GAPDH Antibody (MA1-16757)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with alpha GAPDH siRNA and loss of signal was observed in Western Blot using Anti-GAPDH Monoclonal Antibody (Product # MA1-16757). {KD}



GAPDH Antibody (MA1-16757) in WB

Western blot analysis of GAPDH in cell line lysates. Samples were incubated in GAPDH monoclonal antibody (Product # MA1-16757 using a dilution of 1:2,000. [1] protein standard, [2] HEK293, [3] HeLa, [4] SH-SY5Y, [5] COS1, [6] NIH-3T3, and [7] C6 cells. The GAPDH antibody reveals a single band at ~37 kDa in all cell lines. GAPDH is a house keeping protein, the level of which is relatively unaffected by most experimental manipulations, and, as a result, this antibody has been widely used as a loading control.



View more figures on thermofisher.com

22 References

Western Blot (17)

iScience

Exosomes mediated fibrogenesis in dilated cardiomyopathy through a MicroRNA pathway.

"Published figure using GAPDH monoclonal antibody (Product # MA1-16757) in Western Blot"

Authors: Fu X, Mishra R, Chen L, Arfat MY, Sharma S, Kingsbury T, Gunasekaran M, Saha P, Hong C, Yang P, Li D, Kaushal S

Year
2023

FEBS open bio

Inducible over-expression of cardiac Nos1ap causes short QT syndrome in transgenic mice.

"Published figure using GAPDH monoclonal antibody (Product # MA1-16757) in Western Blot"

Authors: Jänsch M, Lubomirov LT, Trum M, Williams T, Schmitt J, Schuh K, Qadri F, Maier LS, Bader M, Ritter O

Year
2023

[View more WB references on thermofisher.com](#)

Immunocytochemistry (2)

Frontiers in cell and developmental biology

Mitochondrial-Derived Vesicles Protect Cardiomyocytes Against Hypoxic Damage.

"MA1-16757 was used in Immunocytochemistry-Immunofluorescence to explore the role of mitochondrial-derived vesicles in ischemia/hypoxia-induced myocardial apoptosis."

Authors: Li B, Zhao H, Wu Y, Zhu Y, Zhang J, Yang G, Yan Q, Li J, Li T, Liu L

Year
2020

Species
Rat

Dilution
1:1000

Proceedings of the National Academy of Sciences of the United States of America

Disease sequence from mutant rhodopsin allele to rod and cone photoreceptor degeneration in man.

"MA1-16757 was used in immunocytochemistry to study the mechanism for rod and cone photoreceptor degeneration from rhodopsin mutations"

Authors: Cideciyan AV, Hood DC, Huang Y, Banin E, Li ZY, Stone EM, Milam AH, Jacobson SG

Year
1998

Species
Human

Dilution
1:100

More applications with references on thermofisher.com

[ELISA \(1\)](#)

[GPD \(1\)](#)

[Misc \(1\)](#)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.