

GAPDH Loading Control Monoclonal Antibody (GA1R)

Product Details	
Size	100 µg
Species Reactivity	Bacteria, Dog, Chicken, Hamster, Human, Insect, Mouse, Rabbit, Rat, Yeast
Published Species	Rat, Yeast, Pig, Non-human primate, Bacteria, Rodent, Protozoa, Zebrafish, Human, Mouse, Chicken, Rhesus monkey, Horse, Dog, Rabbit, Fruit fly
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	GA1R
Conjugate	Unconjugated
Immunogen	Recombinant GAPDH
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_10977387

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:10,000	407 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:500	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:20-1:200	64 Publications
Flow Cytometry (Flow)	2 µg/test	1 Publication
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	-	2 Publications
Functional Assay (Functional)	-	1 Publication
in situ PLA (PLA)	-	2 Publications
In vitro Assay (IV)	-	1 Publication
Miscellaneous PubMed (Misc)	-	15 Publications

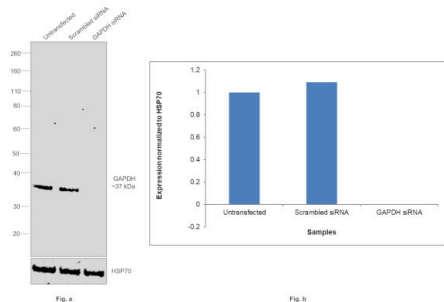
Product Specific Information

This antibody detects GAPDH from BL-21 bacteria, Sf9 insect, *Saccharomyces cerevisiae* (yeast), human, mouse, rat, rabbit, hamster, and chicken samples.

MA5-15738 has been successfully used in Western blot, ICC, IF, IHC (P), FACS and ELISA.

MA5-15738 may be stored at 4°C short term. Add 0.05% sodium azide if desired. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Product Images For GAPDH Loading Control Monoclonal Antibody (GA1R)

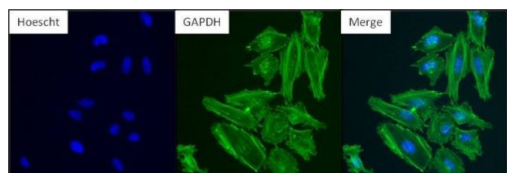


GAPDH Loading Control Antibody (MA5-15738)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with GAPDH Loading Control siRNA and decrease in signal intensity was observed in Western Blot application using GAPDH Loading Control Monoclonal Antibody (GA1R) (Product # MA5-15738). {KD}

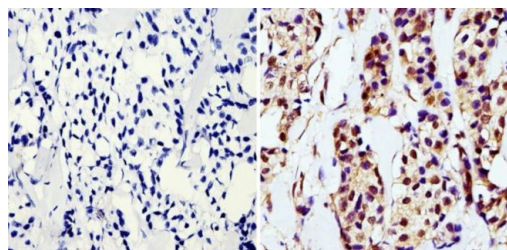
GAPDH Loading Control Antibody (MA5-15738) in ICC/IF

Immunofluorescent analysis of GAPDH (green) in HeLa. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 5% normal goat serum (Product # 31873) for 15 minutes at room temperature. Cells were probed with a GAPDH monoclonal antibody (Product # MA5-15738) at a dilution of 1:100 for at least 1 hour at room temperature, washed with PBS, and incubated with DyLight 488 goat anti-mouse IgG secondary antibody (Product # 35502) at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan or ToxInsight Instrument at 20X magnification.



GAPDH Loading Control Antibody (MA5-15738) in IHC (P)

Immunohistochemistry analysis of GAPDH showing staining in the nucleus and cytoplasm of paraffin-embedded human breast carcinoma (right) compared with a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a GAPDH monoclonal antibody (Product # MA5-15738) diluted in 3% BSA-PBS at a dilution of 1:200 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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Western Blot (407)

Frontiers in cell and developmental biology

A Dominant Heterozygous Mutation in *COG4* Causes Saul-Wilson Syndrome, a Primordial Dwarfism, and Disrupts Zebrafish Development via Wnt Signaling.

"MA5-15738 was used in Western Blotting to understand the molecular mechanism of specific aspects of the Saul-Wilson syndrome phenotype."

Authors: Xia ZJ,Zeng XI,Tambe M,Ng BG,Dong PDS,Freeze HH

Year
2024

Species
Human

Cancer cell international

CircZFR functions as a sponge of miR-578 to promote breast cancer progression by regulating HIF1A expression.

"MA5-15738 was used in Western Blotting to provide evidence for the crucial involvement of circZFR in BC pathogenesis."

Authors: Chen Z,Wang F,Xiong Y,Wang N,Gu Y,Qiu X

Year
2023

Species
Human

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

Immunohistochemistry (1)

RSC advances

Bioorthogonal site-selective conjugation of fluorescent dyes to antibodies: method and potential applications.

"MA5-15738 was used in ELISA, Flow Cytometry, Immunocytochemistry, Immunohistochemistry (Paraffin), Western Blot to provide a practical method to site-specifically label native antibodies with bright fluorescent dyes by targeting the solvent-accessible interchain disulphide bonds."

Authors: Grossenbacher P,Essers MC,Moser J,Singer SA,Häusler S,Stieger B,Rougier JS,Lochner M

Year
2022

Species
Mouse

Immunohistochemistry (Paraffin) (1)

Cell cycle (Georgetown, Tex.)

Promoting roles of long non-coding RNA FAM83H-AS1 in bladder cancer growth, metastasis, and angiogenesis through the c-Myc-mediated ULK3 upregulation.

"MA5-15738 was used in Immunohistochemistry (Paraffin), Western Blot to demonstrate that FAM83H-AS1 upregulates ULK3 expression through the transcription factor c-Myc and promotes the progression of BCa."

Authors: Liu B,Gao W,Sun W,Li L,Wang C,Yang X,Liu J,Guo Y

Year
2020

Species
Human

More applications with references on thermofisher.cn

IHC (F) (1)

ICC/IF (64)

Flow (1)

IP (2)

Functional (1)

PLA (2)

IV (1)

Misc (15)

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