

# 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	Dog, Yeast, Rabbit, Rat, Pig, Non-human primate, Bacteria, Human, Mouse, Chicken
Host/Isotope	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
ELISA (ELISA)	Assay Dependent	-
Flow Cytometry (Flow)	2 µg/test	-
Immunocytochemistry (ICC)	1:20-1:200	60 Publications
Immunofluorescence (IF)	1:20-1:200	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:500	-
Western Blot (WB)	1:1000-1:10,000	181 Publications
Miscellaneous PubMed (Misc)	-	12 Publications
in situ PLA (PLA)	-	2 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.

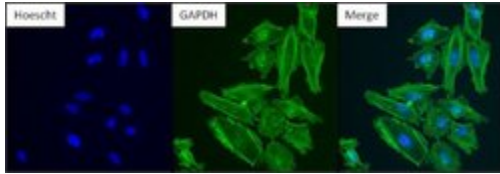
MA5-15738 has been successfully used in Western blot, ICC, IF, IHC (P), FACS and ELISA.

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)

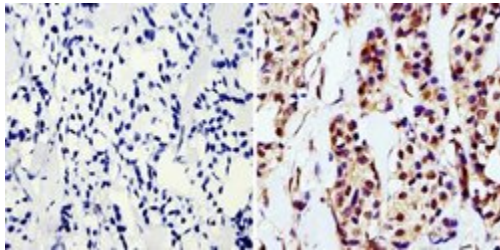
### GAPDH Loading Control Antibody (MA5-15738) in IF

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.



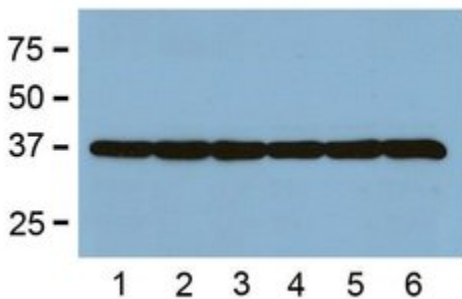
### GAPDH Loading Control Antibody (MA5-15738) in IHC (P)

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% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O 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.



### GAPDH Loading Control Antibody (MA5-15738) in WB

1:2000 (0.5 µg/mL) Ab dilution used in WB of 5 µg/lane tissue lysates from human (1), mouse (2), rat (3), rabbit (4), chicken (5), and hamster (6).



[View more figures on thermofisher.com](https://www.thermofisher.com)

## 255 References

### Western Blot (181)

Frontiers in molecular neuroscience

#### The Enzymatic Core of the Parkinson's Disease-Associated Protein LRRK2 Impairs Mitochondrial Biogenesis in Aging Yeast.

"MA5-15738 was used in Western Blotting to study the effects of high levels of the enzymatic core of human leucine-rich repeat kinase 2 on mitochondrial biogenesis in ageing yeast."

Authors: Aufschnaiter A, Kohler V, Walter C, Tosal-Castano S, Habernig L, Wolinski H, Keller W, Vögtle FN, Büttner S

Species  
Yeast

Dilution  
Not Cited

Year  
2020

Cell death discovery

### FoxO1 interacts with transcription factor EB and differentially regulates mitochondrial uncoupling proteins via autophagy in adipocytes.

"Published figure using GAPDH Loading Control monoclonal antibody (Product # MA5-15738) in Western Blot"

Authors: Liu L,Tao Z,Zheng LD,Brooke JP,Smith CM,Liu D,Long YC,Cheng Z

**Species**  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2019

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

## Immunocytochemistry (60)

Frontiers in cellular neuroscience

### Herpes Simplex Virus Type 1 Enhances Expression of the Synaptic Protein Arc for Its Own Benefit.

"MA5-15738 was used in Western Blotting to study the modulation of synaptic Arc expression by Herpes Simplex Virus Type 1 infection."

Authors: Acuña-Hinrichsen F,Muñoz M,Hott M,Martin C,Mancilla E,Salazar P,Leyton L,Zambrano A,Concha MI,Burgos PV,Oth C

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

Frontiers in oncology

### Glesatinib, a c-MET/SMO Dual Inhibitor, Antagonizes P-glycoprotein Mediated Multidrug Resistance in Cancer Cells.

"MA5-15738 was used in Western Blotting to study the reversal effects of glesatinib to P-glycoprotein mediated multi-drug resistance."

Authors: Cui Q,Cai CY,Gao HL,Ren L, Ji N,Gupta P,Yang Y,Shukla S,Ambudkar SV,Yang DH,Chen ZS

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

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

## More applications with references on thermofisher.com

**PLA (2)**   **Misc (12)**

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