

# GAPDH Loading Control Monoclonal Antibody (GA1R), Biotin

## Product Details

Size	50 µL
Species Reactivity	Bacteria, Chicken, Hamster, Human, Insect, Mouse, Rabbit, Rat, Yeast
Published Species	Mouse, Human
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	GA1R
Conjugate	Biotin
Immunogen	Recombinant GAPDH
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with proprietary stabilizer
Contains	0.02% sodium azide
Storage Conditions	4° C, do not freeze
RRID	AB_2537653

Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay Dependent	-
Flow Cytometry (Flow)	2 µg/test	-
Immunocytochemistry (ICC)	1:20-1:200	-
Immunofluorescence (IF)	1:20-1:200	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:500	-
Western Blot (WB)	1:500 - 1:1000	7 Publications

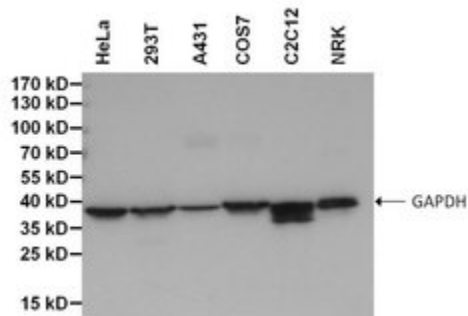
## Product Specific Information

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

## Product Images For GAPDH Loading Control Monoclonal Antibody (GA1R), Biotin

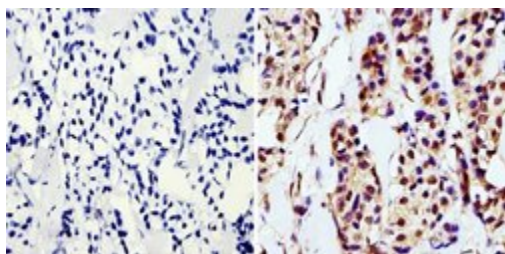
### GAPDH Loading Control Antibody (MA5-15738-BTIN) in WB

Western blot analysis of GAPDH was performed by loading 50 µg of various cell lysates per well onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with a biotinylated GAPDH monoclonal antibody (Product # MA5-15738-BTIN) at a dilution of 1:1000 for 1 hour at room temperature, followed by Streptavidin-HRP (Product # 21126) at a dilution of 1:20,000 for 30 minutes at room temperature. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34078).



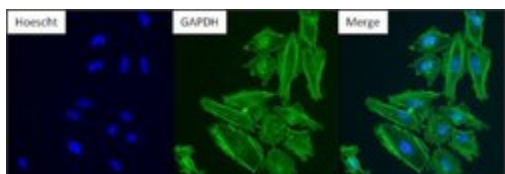
### GAPDH Loading Control Antibody (MA5-15738-BTIN) in IHC (P)

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-BTIN) 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.



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

Western Blot (7)

Disease models and mechanisms

**Correction of cognitive deficits in mouse models of Down syndrome by a pharmacological inhibitor of DYRK1A.**

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

Authors: Nguyen TL, Duchon A, Manousopoulou A, Loaëc N, Villiers B, Pani G, Karatas M, Mechling AE, Harsan LA, Limanton E, Bazureau JP, Carreaux F, Garbis SD, Meijer L, Herault Y

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

Cell death and disease

**Estradiol signaling mediates gender difference in visceral adiposity via autophagy.**

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

Authors: Tao Z, Zheng LD, Smith C, Luo J, Robinson A, Almeida FA, Wang Z, Olumi AF, Liu D, Cheng Z

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

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

**More applications with references on thermofisher.com**

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.