

beta Actin Loading Control Monoclonal Antibody (BA3R)

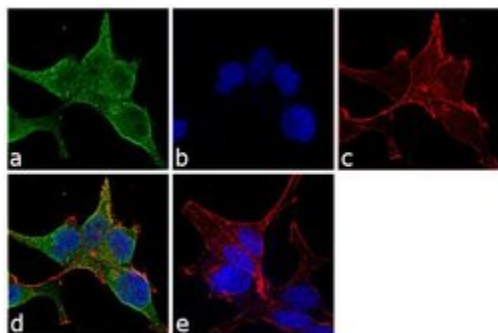
Product Details	
Size	100 µg
Species Reactivity	Chicken, Human, Mouse, Rabbit, Rat
Published Species	Fungi, Rabbit, Rat, Pig, Non-human primate, Plant, Human, Mouse, Chicken, Guinea pig
Host/Isotype	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	BA3R
Conjugate	Unconjugated
Immunogen	Beta-actin N-terminal peptide.
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_10979409

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:10,000	211 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	Assay-dependent	11 Publications
Flow Cytometry (Flow)	1-5 µg/1x10 ⁶ cells	1 Publication
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	6 Publications

Product Specific Information

Storage and handling: add 0.05% sodium azide if desired. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Product Images For beta Actin Loading Control Monoclonal Antibody (BA3R)

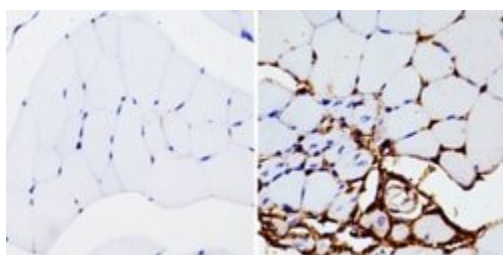


beta Actin Loading Control Antibody (MA5-15739) in ICC/IF

Immunofluorescence analysis of beta Actin was performed using 70% confluent log phase LNCaP cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with beta Actin (BA3R) Loading Control Mouse Monoclonal Antibody (Product # MA5-15739-1MG) at 2µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.

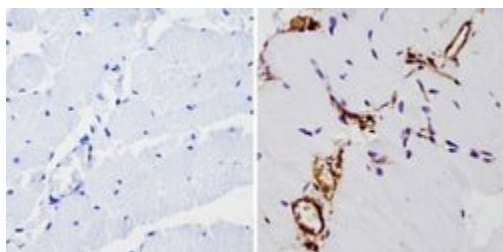
beta Actin Loading Control Antibody (MA5-15739) in IHC (P)

Immunohistochemistry analysis of Beta Actin showing staining in the cytoskeleton of paraffin-embedded mouse skeletal muscle tissue (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 Beta Actin loading control antibody (Product # MA5-15739) 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.



beta Actin Loading Control Antibody (MA5-15739) in IHC (P)

Immunohistochemistry analysis of Beta Actin showing staining in the cytoskeleton of paraffin-embedded human skeletal muscle tissue (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 Beta Actin loading control antibody (Product # MA5-15739) 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 (211)

OncoTargets and therapy

ANO6 promotes cell proliferation and invasion in glioma through regulating the ERK signaling pathway.

"MA5-15739 was used in Western Blotting to reveal that ANO6 activated ERK signalling pathway through promoting the nuclear translocation of ERK to increase the proliferation and invasion of glioblastoma cells."

Authors: Xuan ZB,Wang YJ,Xie J

Species
Human

Dilution
1:5000

Year
2022

Cell adhesion & migration

- Linolenic acid modulates phagocytosis and endosomal pathways of extracellular Tau in microglia.

"MA5-15739 was used in Western Blotting to suggest that microglia could be influenced to reduce extracellular Tau seed with dietary fatty acids."

Authors: Desale SE,Chinnathambi S

Species
Mouse

Dilution
Not Cited

Year
2021

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

Immunocytochemistry (11)

Scientific reports

Photodynamic exposure of Rose-Bengal inhibits Tau aggregation and modulates cytoskeletal network in neuronal cells.

"MA5-15739 was used in Immunocytochemistry-immunofluorescence to study the protective role of Rose Bengal against Tau aggregation and cytoskeleton modulations."

Authors: Dubey T,Gorantla NV,Chandrashekar KT,Chinnathambi S

Species
Mouse

Dilution
Not Cited

Year
2020

International journal of molecular medicine

GW4064 attenuates lipopolysaccharideinduced hepatic inflammation and apoptosis through inhibition of the Tolllike receptor 4mediated p38 mitogenactivated protein kinase signaling pathway in mice.

"MA5-15739 was used in Western Blotting to investigate the capacity of GW4064 to protect the livers of mice from lipopolysaccharide-induced inflammation and apoptosis."

Authors: Liu HM, Lee TY, Liao JF

Species
Mouse

Dilution
1:1,000

Year
2018

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[Flow \(1\)](#) [IP \(1\)](#) [Misc \(6\)](#)

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