

# beta Actin Monoclonal Antibody (BA3R), HRP

Product Details	
Size	50 µL
Species Reactivity	Dog, Chicken, Human, Mouse, Non-human primate, Rabbit, Rat
Published Species	Rat, Fruit fly, Human, Mouse
Host/Isotype	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	BA3R
Conjugate	HRP
Immunogen	Beta-actin N-terminal peptide.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Contains	0.07% Kathon
Storage conditions	4° C
RRID	AB_2537667

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	33 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication

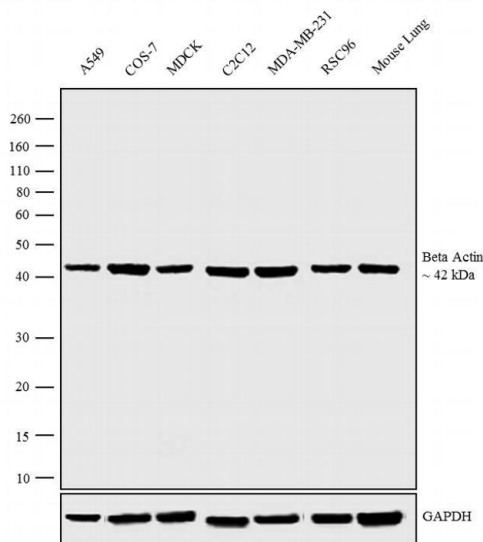
## Product Specific Information

MA5-15739-HRP has been successfully used in Western blotting applications with human, mouse, rat, rabbit, and chicken samples.

## Product Images For beta Actin Monoclonal Antibody (BA3R), HRP

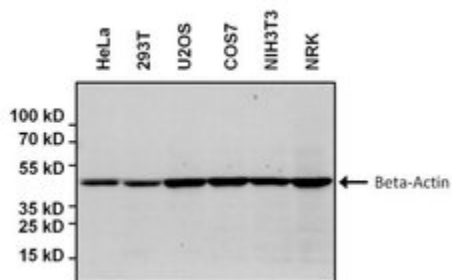
### beta Actin Antibody (MA5-15739-HRP) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A549 (Lane 1), COS-7 (Lane 2), MDCK (Lane 3), C2C12 (Lane 4), MDA-MB-231 (Lane 5), RSC96 (Lane 6) and tissue extracts of Mouse Lung (Lane 7). The blot was probed with beta Actin Monoclonal Antibody (BA3R), HRP (Product # MA5-15739-HRP, 1 µg/mL) and detected by chemiluminescence. A 42 kDa band corresponding to beta Actin was observed across the cell lines and tissues tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10% Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



### beta Actin Antibody (MA5-15739-HRP) in WB

Western blot analysis of Beta-Actin was performed by loading 30 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 an HRP-conjugated Beta-Actin monoclonal antibody (Product # MA5-15739-HRP) at a dilution of 1:1000 for 1 hour at room temperature on a rocking platform and washed in TBS-0.1% Tween-20. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34080).



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## Western Blot (33)

### Cancers

#### Distinct mRNAs in Cancer Extracellular Vesicles Activate Angiogenesis and Alter Transcriptome of Vascular Endothelial Cells.

"MA5-15739-HRP was used in Western Blot to show that mRNAs prevail in cancer EVs as compared with normal EVs, and cancer EVs that carry abundant angiogenic mRNAs activate angiogenesis in human umbilical vein endothelial cells (HUVECs)."

Authors: Zhang P, Lim SB, Jiang K, Chew TW, Low BC, Lim CT

**Species**  
Human

**Dilution**  
1:1000

**Year**  
2021

### Frontiers in pharmacology

#### DuCLOX-2/5 Inhibition Attenuates Inflammatory Response and Induces Mitochondrial Apoptosis for Mammary Gland Chemoprevention.

"Published figure using beta Actin monoclonal antibody (Product # MA5-15739-HRP) in Western Blot"

Authors: Gautam S, Rawat AK, Sammi SR, Roy S, Singh M, Devi U, Yadav RK, Singh L, Rawat JK, Ansari MN, Saeedan AS, Kumar D, Pandey R, Kaithwas G

**Species**  
Rat

**Dilution**  
1:3000

**Year**  
2020

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

## Immunocytochemistry (1)

### Scientific reports

#### Genetically unmatched human iPSC and ESC exhibit equivalent gene expression and neuronal differentiation potential.

"MA5-15739-HRP was used in Immunocytochemistry to indicate close molecular similarities between genetically unmatched hESCs and hiPS in term of gene expression, and signalling pathways."

Authors: Marei HE, Althani A, Lashen S, Cenciarelli C, Hasan A

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2017

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