

[Primary Antibody]

beta-Actin Mouse mAb, Loading Control



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ANTIBODIES

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— DATASHEET

Host: Mouse

Clonality: Monoclonal

GeneID: 60

Target: beta-Actin

Purification: affinity purified by Protein G

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Actin is a highly conserved protein and an essential component of cell cytoskeleton and plays an important role in cytoplasmic streaming, cell shape determination, cell division, organelle movement and extension growth. Preferentially expressed in young and expanding tissues, floral organ primordia, developing seeds and emerging inflorescence. Antibodies against plant Actin are useful as loading controls for Western Blotting.

Isotype: IgG

CloneNo.: 1A2

SWISS: P60709

Applications: WB (1:1000-5000)

IHC-P (1:200-2000)

IHC-F (1:200-2000)

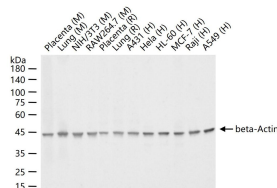
IF (1:200-2000)

Reactivity: Human, Mouse, Rat
(predicted: Rabbit, Chicken,
Dog, Hamster, Monkey)

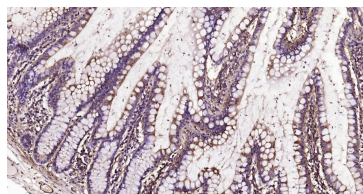
Predicted MW.: 42 kDa

Subcellular Location: Cytoplasm

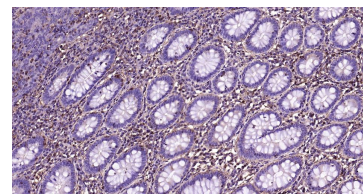
— VALIDATION IMAGES



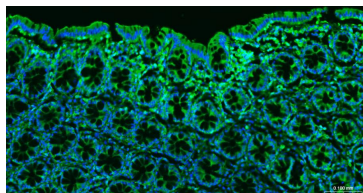
25 ug total protein per lane of various lysates (see on figure) probed with beta-Actin monoclonal antibody, unconjugated (bsm-33036M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



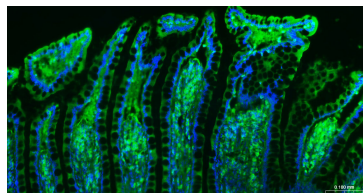
Paraformaldehyde-fixed, paraffin embedded Human Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with beta-Actin Monoclonal Antibody, Unconjugated (ascites of bsm-33036M) at 1:1500 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, so-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with beta-Actin Monoclonal Antibody, Unconjugated (ascites of bsm-33036M) at 1:1500 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with beta-Actin Monoclonal Antibody, Unconjugated (bsm-33036M) at 1:1000 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.



Paraformaldehyde-fixed, paraffin embedded Human Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with beta-Actin Monoclonal Antibody, Unconjugated (bsm-33036M) at 1:1000 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

— SELECTED CITATIONS —

- **[IF=16.836]** Zhang L et al. A Conditionally Releasable “Do not Eat Me” CD47 Signal Facilitates Microglia-Targeted Drug Delivery for the Treatment of Alzheimer’s Disease. *Adv. Funct. Mater.* 2020, 1910691 WB ;rabbit. 10.1002/adfm.201910691
- **[IF=14.6]** Yunfei Yi. et al. siRNA micelleplexes-mediated glutamine metabolism re-engineering for vascular normalization-boosted photo-immunotherapy. *ACTA PHARM SIN B.* 2025 Feb;; IF ;Mouse. 40486857
- **[IF=12.8]** Xu Shi. et al. Combined exposure of emamectin benzoate and microplastics induces tight junction disorder, immune disorder and inflammation in carp midgut via lysosome/ROS/ferroptosis pathway. *WATER RES.* 2024 Apr;;121660 WB ;Fish. 38688190
- **[IF=11.062]** Xiong Ying. et al. SLC2A12 of SLC2 Gene Family in Bird Provides Functional Compensation for the Loss of SLC2A4 Gene in Other Vertebrates. *Mol Biol Evol.* 2020 Nov;; WB ;Sparrow. 33316072
- **[IF=10.787]** Xi Zhao. et al. Accumulated cholesterol protects tumours from elevated lipid peroxidation in the microenvironment. *REDOX BIOL.* 2023 Jun;62:102678 WB ;Mouse. 36940607