

[Primary Antibody]



BioSS
ANTIBODIES

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— DATASHEET

Host: Mouse

Clonality: Monoclonal

GeneID: 60

Target: ACTB | 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)

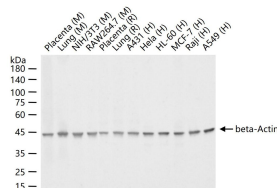
Reactivity: Human, Mouse, Rat
(predicted: Rabbit, Chicken,
Dog, Hamster, Monkey)

Predicted
MW.: 42 kDa

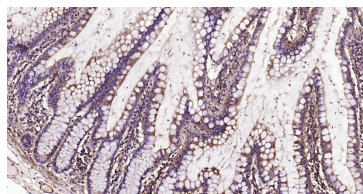
Observed
MW.: 42 kDa

Subcellular Location: Cytoplasm

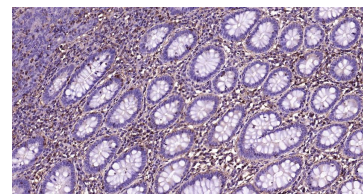
— VALIDATION IMAGES



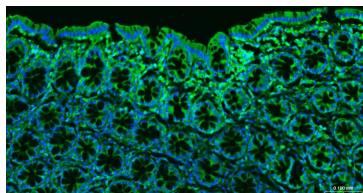
25 ug total protein per lane of various lysates (see on figure) probed with beta-Actin monoclonal antibody, unconjugated (bsm-33036M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



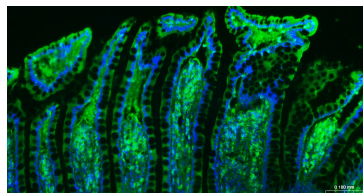
Paraformaldehyde-fixed, paraffin embedded Human Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with beta-Actin Monoclonal Antibody, Unconjugated (ascites of bsm-33036M) at 1:1500 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, 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 (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=14.1]** Zi-Jie Liu. et al. Adenylyl Cyclase 8 in Dorsal CA1 Neurons Prevents Depressive-Like Behaviors by Maintaining Neuronal Excitability and Glutamatergic Neurotransmission Through TIP39-PTH2R Signaling. *ADV SCI.* 2025 Dec;;e12170 WB ;Mouse. 41387170
- **[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=12.5]** Qiangyuan Zhu. et al. Nanocollision promotes locomotion of dendritic cells for tumor therapy. *SCI ADV.* 2026 Feb;12(6) WB ;Mouse. 41637521