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## beta-Actin Mouse mAb, Loading Control

Catalog Number: bsm-33036M

Target Protein: beta-Actin

Concentration: 1mg/ml

Form: Size : 50ul/100ul/500ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 1A2

Isotype: IgG

Applications: WB (1:500-5000), 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

Entrez Gene: 60

Swiss Prot: P60709

Purification: affinity purified by Protein G

Storage: Size : 50ul/100ul/500ul

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size : 200ug (PBS only)

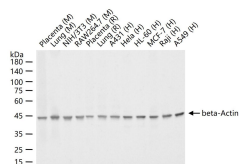
0.01M PBS

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

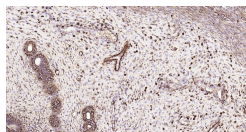
**Background:** Actin is a highly conserved protein and an essential component of cell cytoskeleton and plays an important role in cytoplasmic streaming, cell shape determination, cell division, organelle movement and extension growth. Preferentially expressed in young and expanding tissues, floral organ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

### VALIDATION IMAGES

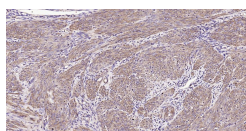
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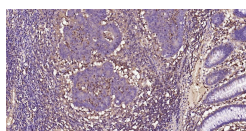
25 ug total protein per lane of various lysates (see on figure) probed with beta-Actin monoclonal antibody, unconjugated (bsm-33036M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



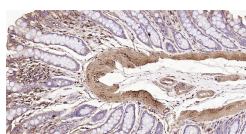
Paraformaldehyde-fixed, paraffin embedded Rat Uterus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with beta-Actin Monoclonal Antibody, Unconjugated (bsm-33036M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



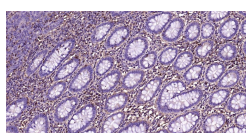
Paraformaldehyde-fixed, paraffin embedded Human Uterus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with beta-Actin Monoclonal Antibody, Unconjugated (ascites of bsm-33036M) at 1:1500 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024)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



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with beta-Actin Monoclonal Antibody, Unconjugated (bsm-33036M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat 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 (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.

## PRODUCT SPECIFIC PUBLICATIONS

[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=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

[IF=10.787] Ya Ya Cao. et al. A catalase inhibitor: Targeting the NADPH-binding site for castration-resistant prostate cancer therapy.

REDOX BIOL. 2023 Jul;63:102751 WB ; Human . 37216701