

F-Actin Rabbit pAb

Catalog Number: bs-1571R

Target Protein: F-Actin

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:1000-5000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (3µg /test)

Reactivity: Human, Mouse, Rat (predicted:Pig, Sheep, Cow)

Predicted MW: 42 kDa

Entrez Gene: 60

Swiss Prot: P60709

Source: Synthetic MAP peptide derived from human beta-Actin: 1-50/374.

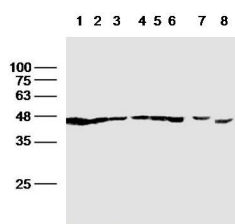
Purification: affinity purified by Protein A

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

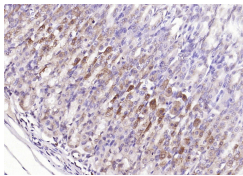
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

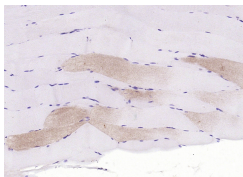
VALIDATION IMAGES



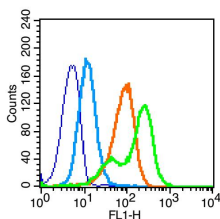
Sample: Lane1:Hela (Human) Whole Cell Lysate at 30 ug Lane2:Jurkat (Human) Whole Cell Lysate at 30 ug Lane3:293T (Human) Whole Cell Lysate at 30 ug Lane4:Hepg2 (Human) Whole Cell Lysate at 30 ug Lane5:A431 (Human) Whole Cell Lysate at 30 ug Lane6:A549 (Human) Whole Cell Lysate at 30 ug Lane7:H9C2 (Rat) Whole Cell Lysate at 30 ug Lane8:Testis (Mouse) Tissue Lysate at 30 ug Primary: Anti-F-Actin(bs-1571R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 42 kD



Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (F-Actin) Polyclonal Antibody, Unconjugated (bs-1571R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (F-Actin) Polyclonal Antibody, Unconjugated (bs-1571R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (blue line): HeLa (blue). Primary Antibody (green line): Rabbit Anti- F-Actin antibody (bs-1571R) Dilution: 3µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 80% methanol (5 min at -20°C) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature . Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=7.9] Ze Li. et al. Multiscale hydrogel regulates mesenchymal stem cell fate for bone regeneration. Cell Reports Physical Science. 2024 Sep;5: IF ; Rat . 10.1016/j.xcrp.2024.102181

[IF=6.126] Taketo Suzuki. et al. Vascular Shutdown by Photodynamic Therapy Using Talaporfin Sodium. Cancers. 2020 Sep;12(9):2369 ICC ; Human . 32825648

[IF=5.6] Jiangliu Yang. et al. Baicalin Attenuates Pantoin–Valentine Leukocidin (PVL)-Induced Cytoskeleton Rearrangement via Regulating the RhoA/ROCK/LIMK and PI3K/AKT/GSK-3β Pathways in Bovine Mammary Epithelial Cells. INT J MOL SCI. 2023 Jan;24(19):14520 WB ; Bovine . 37833969

[IF=6.4] Chattopadhyay Chandrani. et al. Imipridones inhibit tumor growth and improve survival in an orthotopic liver metastasis mouse model of human uveal melanoma. BRIT J CANCER. 2024 Oct;;1-12 WB ; Human . 39394450

[IF=5.79] Yang et al. Rab5-mediated VE-cadherin internalization regulates the barrier function of the lung microvascular endothelium. (2015) Cell.Mol.Life.Sci. 72:4849-66 WB,ICC ; Human . 26112597