SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-F-Actin antibody

Catalog Number: SL1571R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	F-Actin
Immunogen:	Synthetic MAP peptide derived from human beta-Actin: 1-50/374
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:1000-5000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=3μg /test（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Pig,Cow,Sheep)
Predicted MW.:	42kDa
Subcellular Location:	cytoplasmic
Background:	In vertebrates, three main groups of actin isoforms, alpha, beta, and gamma have been identified. The alpha actins, found in muscletissues, are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cytoskeleton, and as mediators of internal cell motility. Individual subunits of microfilaments are known as globular actin (G-actin). G-actin subunits assemble into long filamentous polymers called F-actin. **Database links:** **Entrez Gene:** 60 Human **Entrez Gene:** 11461 Mouse **Entrez Gene:** 100009272 Rabbit

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

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	Entrez Gene: 81822 Rat Omim: 102630 Human **SwissProt:** P60709 Human **SwissProt:** P60710 Mouse **SwissProt:** P29751 Rabbit **SwissProt:** P60711 Rat **Unigene:** 520640 Human **Unigene:** 708120 Human **Unigene:** 727576 Human **Unigene:** 328431 Mouse **Unigene:** 391967 Mouse **Unigene:** 94978 Rat Fibrous actin F-Actin is mainly present in striated muscle proto-myofibril thin filaments and smooth muscle, and is an important protein for muscle movement and cell motility.

[VALIDATION IMAGES]

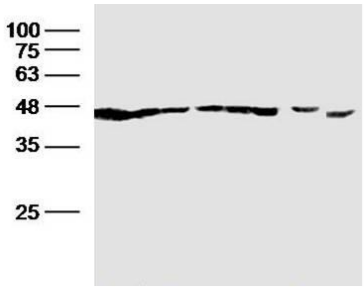


Figure 1. Sample: Lane1:Hela (Human) Whole Cell Lysate at 30 ug Lane2:Jurkat (Human) Whole Cell Lysate at 30 ug Lane3:293T (Human) Whole Cell Lysate at 30 ug Lane4:Hepg2 (Human) Whole Cell Lysate at 30 ug Lane5:A431 (Human) Whole Cell Lysate at 30 ug Lane6:A549 (Human) Whole Cell Lysate at 30 ug Lane7:H9C2 (Rat) Whole Cell Lysate at 30 ug Lane8:Testis (Mouse) Tissue Lysate at 30 ug Primary: Anti-F-Actin(SL1571R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 42 kD

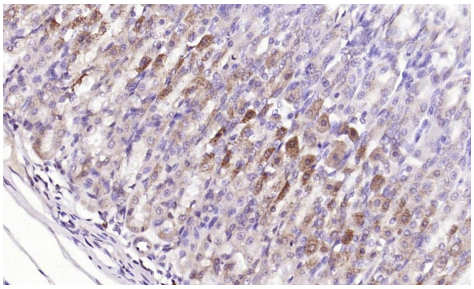


Figure 2. Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (F-Actin) Polyclonal Antibody, Unconjugated (SL1571R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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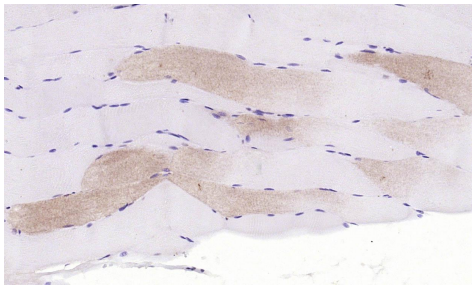


Figure 3. Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (F-Actin) Polyclonal Antibody, Unconjugated (SL1571R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

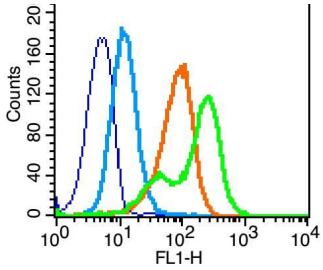


Figure 4. Blank control (blue line): Hela (blue). Primary Antibody (green line): Rabbit Anti- F-Actin antibody (SL1571R) Dilution: 3µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 80% methanol (5 min at -20℃) 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

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