

# Anti-Cofilin Antibody [PSH0-33] - BSA and Azide free

## HA750612



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat, Monkey
<b>Applications:</b>	WB, IF-Cell, FC
<b>Molecular Wt:</b>	Predicted band size: 19 kDa
<b>Clone number:</b>	PSH0-33

**Description:** Cofilin 1 (non-muscle; n-cofilin), also known as CFL1, is a human gene, part of the ADF/cofilin family. Cofilin is a widely distributed intracellular actin-modulating protein that binds and depolymerizes filamentous F-actin and inhibits the polymerization of monomeric G-actin in a pH-dependent manner. It is involved in the translocation of actin-cofilin complex from cytoplasm to nucleus. One group reports that reelin signaling leads to serine3-phosphorylation of cofilin-1, and this interaction may play a role in the reelin-related regulation of neuronal migration. Cofilin 1 has been shown to interact with HSPH1 and LIMK1.

**Immunogen:** Synthetic peptide within human Cofilin aa 117-166 / 166.

**Positive control:** Hela cell lysate, HEK-293 cell lysate, MCF-7 cell lysate, MDA-MB-468 cell lysate, K-562 cell lysate, SH-SY5Y cell lysate, HUVEC cell lysate, Jurkat cell lysate, A431 cell lysate, COS-1 cell lysate, VERO cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate, Neuro-2a cell lysate, NIH/3T3, Hela.

**Subcellular location:** Nucleus matrix, Cytoplasm, Cytoskeleton, Cell projection.

**Database links:** SwissProt: P23528 Human | P18760 Mouse | P45592 Rat

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:100
<b>FC</b>	1:200-1:1,000

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

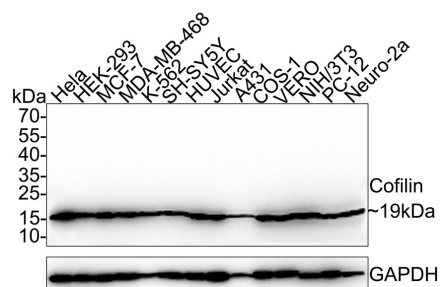
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images

**Fig1:** Western blot analysis of Cofilin on different lysates with Rabbit anti-Cofilin antibody (HA750612) at 1/1,000 dilution.



Lane 1: HeLa cell lysate (30 µg/Lane)  
 Lane 2: HEK-293 cell lysate (30 µg/Lane)  
 Lane 3: MCF-7 cell lysate (30 µg/Lane)  
 Lane 4: MDA-MB-468 cell lysate (24 µg/Lane)  
 Lane 5: K-562 cell lysate (16 µg/Lane)  
 Lane 6: SH-SY5Y cell lysate (22 µg/Lane)  
 Lane 7: HUVEC cell lysate (30 µg/Lane)  
 Lane 8: Jurkat cell lysate (30 µg/Lane)  
 Lane 9: A431 cell lysate (20 µg/Lane)  
 Lane 10: COS-1 cell lysate (30 µg/Lane)  
 Lane 11: VERO cell lysate (30 µg/Lane)  
 Lane 12: NIH/3T3 cell lysate (22 µg/Lane)  
 Lane 13: PC-12 cell lysate (30 µg/Lane)  
 Lane 14: Neuro-2a cell lysate (19 µg/Lane)

Predicted band size: 19 kDa

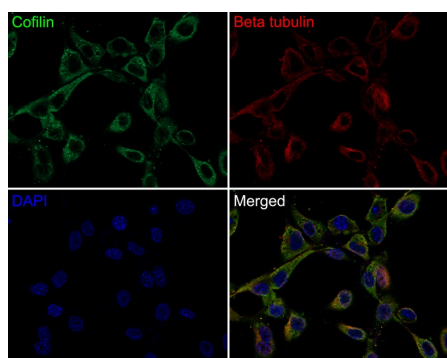
Observed band size: 19 kDa

Exposure time: 20 seconds;

15% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750612) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

**Fig2:** Immunocytochemistry analysis of NIH/3T3 cells labeling Cofilin with Rabbit anti-Cofilin antibody (HA750612) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-Cofilin antibody (HA750612) at 1/100 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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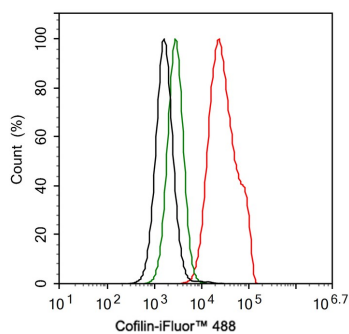
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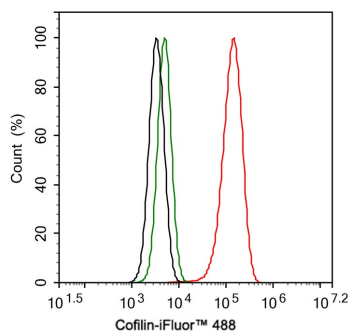
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**Fig3:** Flow cytometric analysis of HeLa cells labeling Cofilin.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA750612, 1ug/ml) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4℃ for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4℃. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).



**Fig4:** Flow cytometric analysis of NIH/3T3 cells labeling Cofilin.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA750612, 1ug/ml) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4℃ for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4℃. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

### Background References

1. Namme JN et al. Cofilin Signaling in the CNS Physiology and Neurodegeneration. Int J Mol Sci. 2021 Oct
2. Bamburg JR et al. Cofilin and Actin Dynamics: Multiple Modes of Regulation and Their Impacts in Neuronal Development and Degeneration. Cells. 2021 Oct

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