

KD-Validated Anti-Cofilin 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1858**Specification****KD-Validated Anti-Cofilin 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P23528
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 19 kDa, observed, 19 kDa KDa
Gene Name	CFL1
Aliases	CFL1; Cofilin 1; CFL; Cofilin 1 (Non-Muscle); 18 KDa Phosphoprotein; Cofilin-1; P18; Epididymis Secretory Protein Li 15; Cofilin, Non-Muscle Isoform; HEL-S-15; Cofilin
Immunogen	A synthesized peptide derived from human Cofilin

KD-Validated Anti-Cofilin 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	1072
Other Names	
Cofilin-1, 18 kDa phosphoprotein, p18, Cofilin, non-muscle isoform, CFL1, CFL	

KD-Validated Anti-Cofilin 1 Rabbit Monoclonal Antibody - Protein Information**Name** CFL1**Synonyms** CFL**Function**

Binds to F-actin and exhibits pH-sensitive F-actin depolymerizing activity (PubMed:11812157). In conjunction with the subcortical maternal complex (SCMC), plays an essential role for zygotes to progress beyond the first embryonic cell divisions via regulation of actin dynamics (PubMed:15580268). Required for the centralization of the mitotic spindle and symmetric division of zygotes (By similarity). Plays a role in the regulation of cell morphology and cytoskeletal organization in epithelial cells (PubMed:21834987). Required for the up-regulation of atypical chemokine receptor ACKR2 from endosomal compartment to cell membrane, increasing its efficiency in chemokine uptake and degradation (PubMed:23633677). Required for neural tube morphogenesis and neural crest cell migration (By similarity).

Cellular Location

Nucleus matrix. Cytoplasm, cytoskeleton. Cell projection, ruffle membrane; Peripheral membrane

protein; Cytoplasmic side. Cell projection, lamellipodium membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium {ECO:0000250|UniProtKB:P18760}. Cell projection, growth cone {ECO:0000250|UniProtKB:P18760}. Cell projection, axon {ECO:0000250|UniProtKB:P18760}. Note=Colocalizes with the actin cytoskeleton in membrane ruffles and lamellipodia. Detected at the cleavage furrow and contractile ring during cytokinesis. Almost completely in nucleus in cells exposed to heat shock or 10% dimethyl sulfoxide

Tissue Location

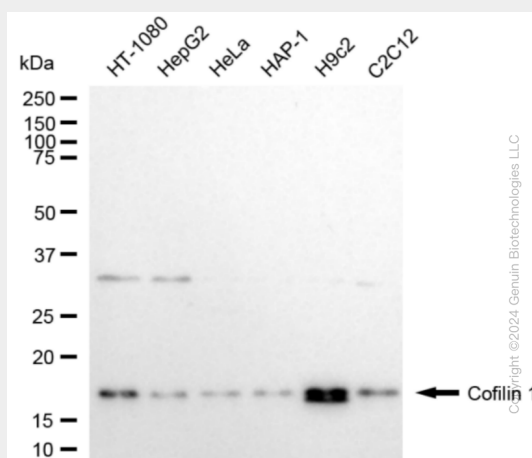
Widely distributed in various tissues.

KD-Validated Anti-Cofilin 1 Rabbit Monoclonal Antibody - Protocols

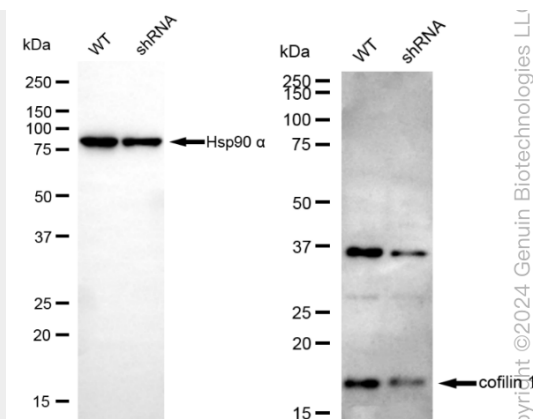
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

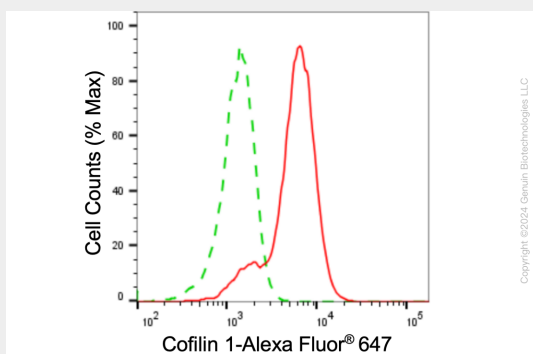
KD-Validated Anti-Cofilin 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-cofilin 1 antibody (Cat#AGI1858). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-cofilin 1 antibody (Cat#AGI1858, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-cofilin 1 antibody (Cat#AGI1858). Cofilin 1 expression in wild type (WT) and cofilin 1 (CFL1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-cofilin 1 antibody (Cat#AGI1858, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of cofilin 1 expression in H9c2 cells using anti-cofilin 1 antibody (Cat#AGI1858, 1:2,000). Green, isotype control; red, cofilin 1.