

## **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 CFL

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

Cofilir

## 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:<a href="http://www.uniprot.org/citations/11812157" target="\_blank">11812157</a>). 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:<a href="http://www.uniprot.org/citations/15580268" target="\_blank">15580268</a>). 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:<a href="http://www.uniprot.org/citations/21834987" target="\_blank">21834987</a>). 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:<a href="http://www.uniprot.org/citations/23633677" target="\_blank">23633677</a>). 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**

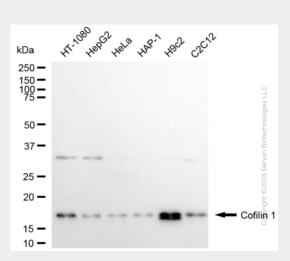
Widely distributed in various tissues.

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

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

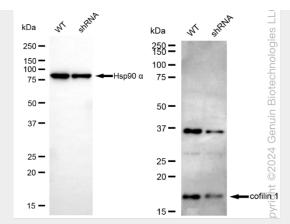
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

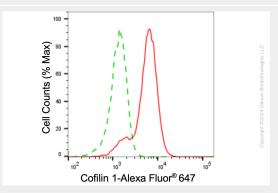


Western blotting analysis using anti-cofilin 1 antibody (Cat#AGI1858). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-cofilin 1 antibody (Cat#AGI1858, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.





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  $\mu$ g of total cell lysates.  $\beta$ -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.