

### **CFL2 Antibody (C-term)**

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20625c

## **Specification**

## CFL2 Antibody (C-term) - Product Information

Application IF, WB,E Primary Accession O9Y281

Other Accession <u>Q5XHH8</u>, <u>Q5G6V9</u>, <u>P45591</u>, <u>P21566</u>, <u>Q148F1</u>

Reactivity Human, Mouse

Predicted Bovine, Chicken, Pig, Xenopus

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 18737

## CFL2 Antibody (C-term) - Additional Information

#### **Gene ID** 1073

### **Other Names**

Cofilin-2, Cofilin, muscle isoform, CFL2

### Target/Specificity

This CFL2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 130-144 amino acids from the C-terminal region of human CFL2.

## **Dilution**

IF~~1:25

WB~~1:1000

E~~Use at an assay dependent concentration.

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

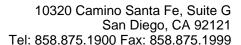
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

CFL2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

# CFL2 Antibody (C-term) - Protein Information

#### Name CFL2





**Function** Controls reversibly actin polymerization and depolymerization in a pH-sensitive manner. Its F-actin depolymerization activity is regulated by association with CSPR3 (PubMed:19752190). It has the ability to bind G- and F-actin in a 1:1 ratio of cofilin to actin. It is the major component of intranuclear and cytoplasmic actin rods. Required for muscle maintenance. May play a role during the exchange of alpha-actin forms during the early postnatal remodeling of the sarcomere (By similarity).

### **Cellular Location**

Nucleus matrix. Cytoplasm, cytoskeleton. Note=Colocalizes with CSPR3 in the Z line of sarcomeres.

### **Tissue Location**

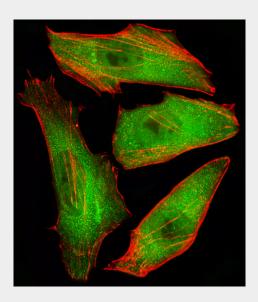
Isoform CFL2b is expressed predominantly in skeletal muscle and heart. Isoform CFL2a is expressed in various tissues

## CFL2 Antibody (C-term) - Protocols

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

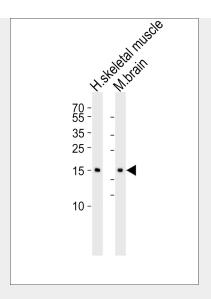
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## CFL2 Antibody (C-term) - Images



Fluorescent image of Hela cells stained with CFL2 Antibody (C-term)(Cat#AP20625c). AP20625c was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).





Western blot analysis of lysates from human skeletal muscle and mouse brain tissue lysate(from left to right), using CFL2 Antibody (C-term)(Cat. #AP20625c). AP20625c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

# CFL2 Antibody (C-term) - Background

Controls reversibly actin polymerization and depolymerization in a pH-sensitive manner. It has the ability to bind G- and F-actin in a 1:1 ratio of cofilin to actin. It is the major component of intranuclear and cytoplasmic actin rods (By similarity).

## CFL2 Antibody (C-term) - References

Jin J., et al. Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases. Thirion C., et al. Eur. J. Biochem. 268:3473-3482(2001). Heilig R., et al. Nature 421:601-607(2003). Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases. Bienvenut W.V., et al. Submitted (MAR-2008) to UniProtKB.