

# CFL2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5036

#### **Product Information**

Application IF, WB Primary Accession Q9Y281

Other Accession Q5XHH8, Q5G6V9, P45591, P21566, Q148F1

**Reactivity** Human, Mouse

**Predicted** Bovine, Chicken, Xenopus

Host Rabbit
Clonality polyclonal
Calculated MW 18737
Isotype Rabbit IgG
Antigen Source HUMAN

### **Additional Information**

**Gene ID** 1073

Antigen Region 130-144

Other Names Cofilin-2, Cofilin, muscle isoform, CFL2

**Dilution** IF~~1:25 WB~~1:1000

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.

**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.

#### **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

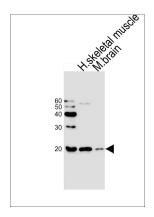
## **Background**

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).

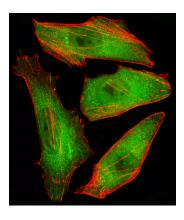
#### References

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.

## **Images**



Western blot analysis of lysates from human skeletal muscle and mouse brain tissue lysate (from left to right), using CFL2 Antibody (C-term)(Cat. #AW5036). AW5036 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Fluorescent image of Hela cells stained with CFL2 Antibody (C-term)(Cat#AW5036). AW5036 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.