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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

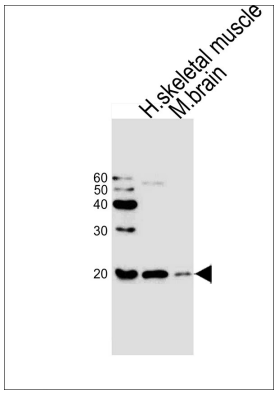
Background

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 lgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).