

CFL2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14117a

Specification

CFL2 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q9Y281
Other Accession	Q5G6V9 , P45591 , Q148F1 , NP_619579.1 , NP_068733.1
Reactivity	Human
Predicted	Bovine, Mouse, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	18737
Antigen Region	25-54

CFL2 Antibody (N-term) - Additional Information

Gene ID 1073

Other Names

Cofilin-2, Cofilin, muscle isoform, CFL2

Target/Specificity

This CFL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 25-54 amino acids from the N-terminal region of human CFL2.

Dilution

WB~~1:1000

IHC-P~~1:10~50

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

CFL2 Antibody (N-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.

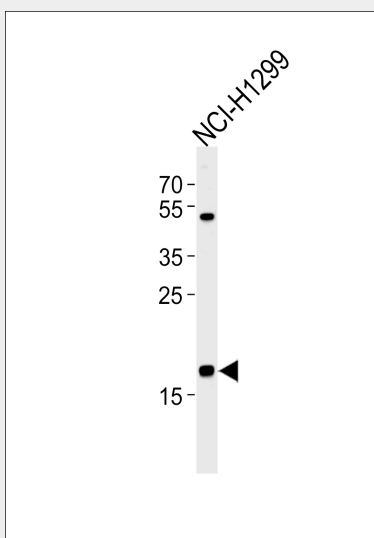
Tissue Location

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

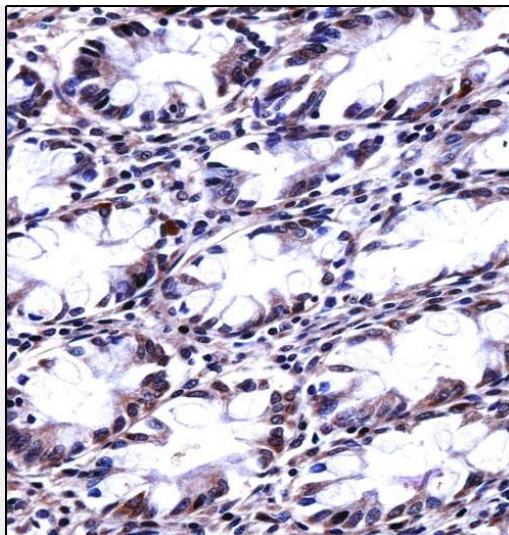
CFL2 Antibody (N-term) - Protocols

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](#)

CFL2 Antibody (N-term) - Images

Western blot analysis of lysate from NCI-H1299 cell line, using CFL2 Antibody (N-term)(Cat. #AP14117a). AP14117a 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. Lysate at 35ug per lane.



CFL2 Antibody (N-term) (AP14117a) immunohistochemistry analysis in formalin fixed and paraffin embedded human rectum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CFL2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CFL2 Antibody (N-term) - Background

This gene encodes an intracellular protein that is involved in the regulation of actin-filament dynamics. This protein is a major component of intranuclear and cytoplasmic actin rods. It can bind G- and F-actin in a 1:1 ratio of cofilin to actin, and it reversibly controls actin polymerization and depolymerization in a pH-dependent manner. Mutations in this gene cause nemaline myopathy type 7, a form of congenital myopathy. Alternative splicing results in multiple transcript variants.

CFL2 Antibody (N-term) - References

Vogel, S., et al. J. Biol. Chem. 285(44):33756-33763(2010) Borensztajn, K., et al. Thromb. Res. 125(6), E323-E328 (2010) : Papalouka, V., et al. Mol. Cell. Biol. 29(22):6046-6058(2009) Wu, Y., et al. Retrovirology 5, 95 (2008) : Agrawal, P.B., et al. Am. J. Hum. Genet. 80(1):162-167(2007)