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CFL1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP2905c

Specification

CFL1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P23528

CFL1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 1072

Other Names
Cofilin-1, 18 kDa phosphoprotein, p18, Cofilin, non-muscle isoform, CFL1, CFL

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2905c was selected from the Center region of human CFL1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CFL1 Antibody (Center) Blocking Peptide - Protein Information

Name CFL1

Synonyms CFL

Function
Binds to F-actin and exhibits pH-sensitive F-actin depolymerizing activity (PubMed:11812157). 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:15580268). 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:21834987). 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:23633677). 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.

CFL1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

CFL1 Antibody (Center) Blocking Peptide - Images

CFL1 Antibody (Center) Blocking Peptide - Background

Cofilin is a widely distributed intracellular actin-modulating protein that binds and depolymerizes filamentous F-actin and inhibits the polymerization of monomeric G-actin in a pH-dependent manner.

CFL1 Antibody (Center) Blocking Peptide - References

Fazal,F., et.al., J. Biol. Chem. 284 (31), 21047-21056 (2009)