10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CFL1 / Cofilin Antibody (clone AF2C2)

Mouse Monoclonal Antibody
Catalog # ALS15197

Specification

CFL1 / Cofilin Antibody (clone AF2C2) - Product Information

Application	**WB, IHC**
Primary Accession	P23528
Reactivity	**Human, Mouse, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**19kDa KDa**

CFL1 / Cofilin Antibody (clone AF2C2) - Additional Information

Gene ID 1072

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

Reconstitution & Storage
Long term: -20°C; Short term: -20°C

Precautions
CFL1 / Cofilin Antibody (clone AF2C2) is for research use only and not for use in diagnostic or therapeutic procedures.

CFL1 / Cofilin Antibody (clone AF2C2) - 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.

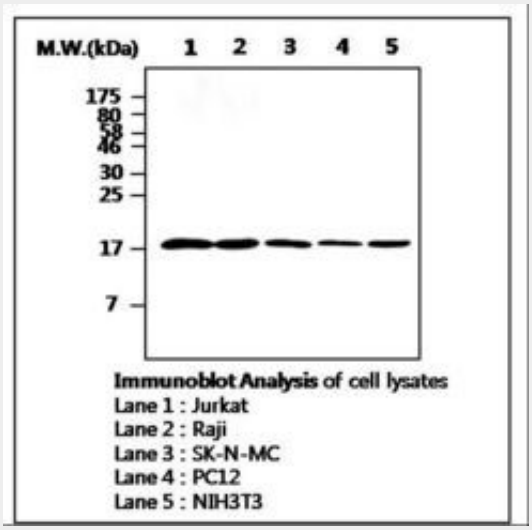
Volume
50 µl

CFL1 / Cofilin Antibody (clone AF2C2) - Protocols

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

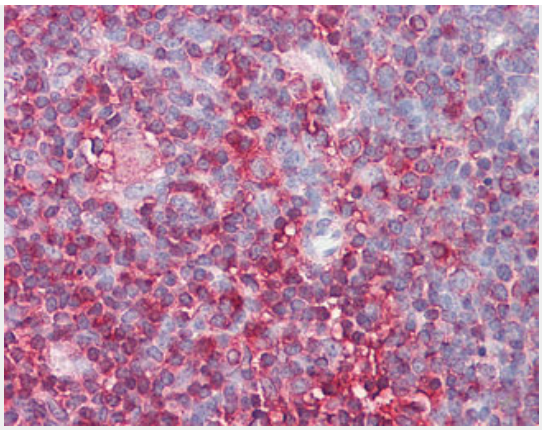
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CFL1 / Cofilin Antibody (clone AF2C2) - Images



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Anti-Cofilin antibody IHC of human thymus.

CFL1 / Cofilin Antibody (clone AF2C2) - Background

Binds to F-actin and exhibits pH-sensitive F-actin depolymerizing activity. Regulates actin cytoskeleton dynamics. Important for normal progress through mitosis and normal cytokinesis. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required for the up-regulation of atypical chemokine receptor ACKR2 from endosomal compartment to cell membrane, increasing its efficiency in chemokine uptake and degradation.

CFL1 / Cofilin Antibody (clone AF2C2) - References

Ogawa K.,et al.Nucleic Acids Res. 18:7169-7169(1990).
van der Steege G.,et al.Eur. J. Hum. Genet. 3:87-95(1995).
Gillett G.T.,et al.Ann. Hum. Genet. 60:201-211(1996).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).