

Phospho-Cofilin(Ser3) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3751a

Specification

Phospho-Cofilin(Ser3) Antibody - Product Information

Application	DB,E
Primary Accession	P23528
Other Accession	NP_005498.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	18502

Phospho-Cofilin(Ser3) Antibody - Additional Information

Gene ID 1072

Other Names

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

Target/Specificity

This Cofilin Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Ser3 of human Cofilin.

Dilution

DB~~1:500

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

Phospho-Cofilin(Ser3) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-Cofilin(Ser3) Antibody - 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

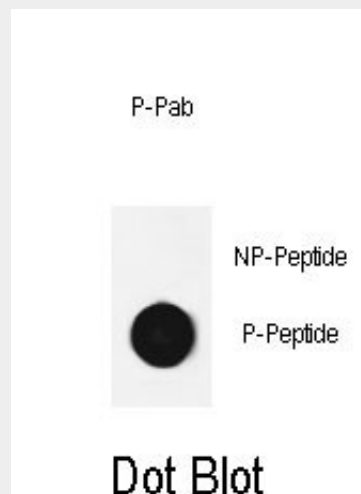
Widely distributed in various tissues.

Phospho-Cofilin(Ser3) Antibody - 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](#)

Phospho-Cofilin(Ser3) Antibody - Images



Dot blot analysis of anti-Phospho-Cofilin (Ser3) antibody Phospho-specific Pab (Cat. #AP3751a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were

adsorbed. Antibody working concentrations are 0.6ug per ml.

Phospho-Cofilin(Ser3) Antibody - 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. It is involved in the translocation of actin-cofilin complex from cytoplasm to nucleus.

Phospho-Cofilin(Ser3) Antibody - References

Klemke, M., et al. EMBO J. 29(17):2915-2929(2010)
Castro, M.A., et al. Cancer 116(15):3645-3655(2010)
Garg, P., et al. J. Biol. Chem. 285(29):22676-22688(2010)
Martins-de-Souza, D., et al. J Psychiatr Res (2010) In press :
Zhang, Y., et al. J. Int. Med. Res. 38(3):1042-1048(2010)

Phospho-Cofilin(Ser3) Antibody - Citations

- [Konjac ceramide \(kCer\) regulates keratinocyte migration by Sema3A-like repulsion mechanism.](#)