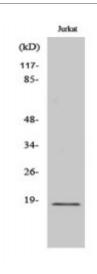


Anti-Cofilin antibody



Description

Rabbit polyclonal to Cofilin.

Model STJ92372

Host Rabbit

Reactivity Human, Mouse, Rat

Applications ELISA, IF, WB

Immunogen Synthesized peptide derived from human Cofilin

Immunogen Region 30-110 aa, Internal

Gene ID <u>1072</u>

Gene Symbol CFL1

Dilution range WB 1:500-1:2000IF 1:200-1:1000ELISA 1:40000

Specificity Cofilin Polyclonal Antibody detects endogenous levels of Cofilin protein.

Tissue Specificity Widely distributed in various tissues.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Note For Research Use Only (RUO).

Protein Name Cofilin-1 18 kDa phosphoprotein p18 Cofilin, non-muscle isoform

Molecular Weight 19 kDa

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Concentration 1 mg/ml

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:1874OMIM:601442</u>

Alternative Names Cofilin-1 18 kDa phosphoprotein p18 Cofilin, non-muscle isoform

Function 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 . Required for neural tube morphogenesis and neural crest cell migration .

Cellular Localization Nucleus matrix Cytoplasm, cytoskeleton Cell projection, ruffle membrane

Cell projection, lamellipodium membrane. 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.

Post-translational Inactive Modifications cells . I

Inactivated by phosphorylation on Ser-3. Phosphorylated on Ser-3 in resting cells . Dephosphorylated by PDXP/chronophin; this restores its activity in promoting actin filament depolymerization. The phosphorylation of Ser-24 may prevent recognition of the nuclear localization signal . Phosphorylated via a ARRB1-RAC1-LIMK1-PAK1 cascade upon active ligand stimulation of

atypical chemokine receptor ACKR2.

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