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PRODUCT DATASHEET

Anti-Cofilin 1 (Ser-3), Phosphospecific Antibody

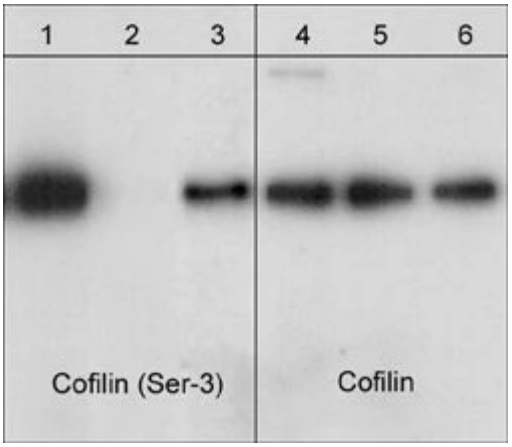
phosphosolutions ANTIBODIES THAT WORK

Product Details

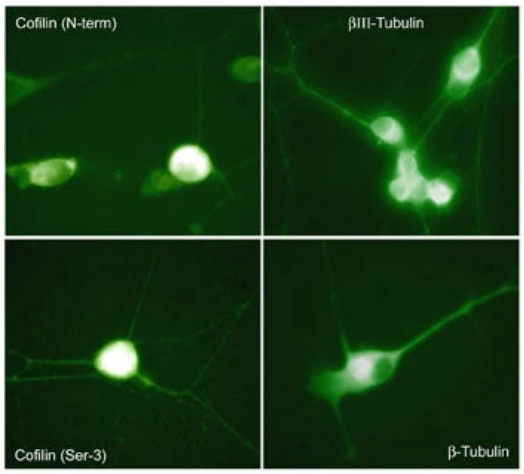
Available Variants	100 µL (SKU:CP1151)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	CFL1
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:50
Species Reactivity	Chicken, Human, Mouse, Rat
Immunogen	A synthetic phospho-peptide (coupled to KLH) corresponding to amino acid residues surrounding serine 3 in human Cofilin 1. This sequence has 100% homology with similar regions of rat and mouse Cofilin 1, and has two amino acid differences from human Cofilin 2.
Specificity	This antibody was cross-adsorbed to unphosphorylated Coflin 1 peptide then affinity purified using phospho-Cofilin 1 (Ser-3) peptide (without carrier). The antibody detects a 19 kDa* protein corresponding to the molecular mass of phosphorylated Cofilin 1 on SDS-PAGE immunoblots of Jurkat cells. This band can be removed by lambda phosphatase treatment.
Molecular Weight	19
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at

	-20°C.
UniProt ID	P23528 UniProt Summary: Binds to F-actin and exhibits pH-sensitive F-actin depolymerizing activity. 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. Required for the centralization of the mitotic spindle and symmetric division of zygotes. Plays a role in the regulation of cell morphology and cytoskeletal organization in epithelial cells. 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.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser-3
NCBI Gene ID	1072

Product Images



Western blot of cofilin in jurkat cells. The blots were untreated (lanes 1 & 4) or treated (lanes 2, 3, 5 & 6) with lambda phosphatase. In lanes 3 & 6, the phosphatase was inhibited with phospho-Cofilin 1 (Ser-3) peptide. The blots were probed with anti-Cofilin 1 (Ser-3) phospho-specific (lanes 1-3) or anti-Cofilin 1 (N-terminus) (lanes 4-6).



Immunocytochemical labeling in chick dorsal root ganglion neurons using anti-Cofilin (N-terminus; CP1131), anti-Cofilin (Ser-3; CP1151), anti-βIII-Tubulin (C-terminus; TP1691) and anti-β-Tubulin (TM1541) antibodies. (Images provided by Dr. Diane Snow, Department of Anatomy & Neurobiology, University of Kentucky).