

Rabbit Cofilin 1 (Ser-3) Polyclonal Antibody | anti-CFL1 antibody

Cofilin 1 (Ser-3), phospho-specific

CATALOG # AAA71517	HOST Rabbit	REACTIVITY Human, Rat, Mouse	APPLICATIONS Western Blot, ELISA
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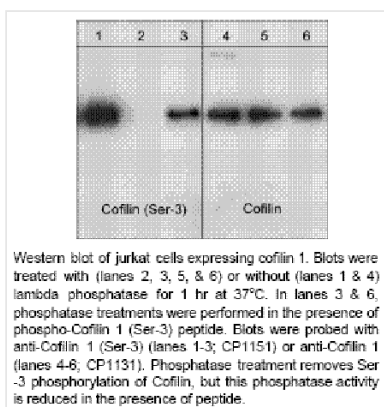
PRODUCT SYNONYMS

Cofilin 1 (Ser-3); Polyclonal Antibody; phospho-specific; p18; 18 kDa phosphoprotein; anti-CFL1 antibody

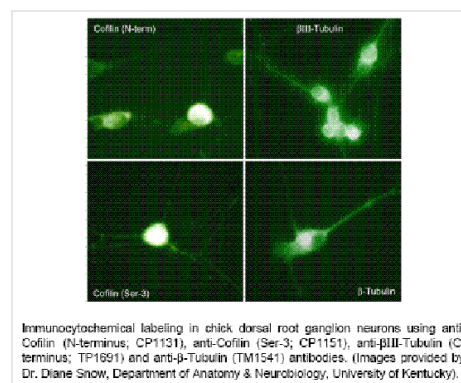
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	This antibody was cross-adsorbed to unphosphorylated Cofilin 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.
Purity/Purification	Affinity Purified
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100 ul phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.
Sequence Length	166
Applicable Applications for anti-CFL1 antibody	WB (Western Blot), ELISA
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.
Preparation and Storage	Store at -20 degree C. Do not aliquot. Stable for 1 year.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CFL1 antibody	Members of the ADF/cofilin (AC) family are actin-severing proteins that regulate actin remodeling during cellular events such as cell migration, cytokinesis, phagocytosis, endocytosis, axon development, and immune cell activation. In mammals, there are three members of the AC family, muscle-specific cofilin (Cofilin 2), non-muscle cofilin (Cofilin 1), and ADF. In humans, cofilin 1 and ADF have 72% identity, with the major amino acid differences found in the C-terminal region. Regulation of cofilin activity can occur through serine phosphorylation. Activation of cofilin kinases, LIMK1 or LIMK2, leads to phosphorylation of cofilin at serine 3. This phosphorylation disrupts cofilin binding to actin in vitro and in vivo. Multiple phosphatases, PP1, PP2A, PP2B, slingshot, and chronophin can dephosphorylate Ser-3 and activate actin binding. Thus, Ser-3 phosphorylation is a major site for the regulation of cofilin activity.
References	• Bamberg, J.R. (1999). Annu Rev Cell Dev Biol. 15:185 • Maciver, S.K. & Hussey, P.J. (2002). Genome Biol. 3(5): 3007

NCBI AND UNIPROT INFORMATION

NCBI GI #	116848
NCBI GeneID	1072
NCBI Accession #	P23528.3
NCBI GenBank Nucleotide #	P23528
UniProt Accession #	P23528; Q53Y87; Q9UCA2; B3KUQ1
Molecular Weight	18,502 Da
NCBI Official Full Name	Cofilin-1
NCBI Official Synonym Full Names	cofilin 1 (non-muscle)
NCBI Official Symbol	CFL1
NCBI Official Synonym Symbols	CFL
NCBI Protein Information	cofilin-1; p18; OTTHUMP00000233679; OTTHUMP00000233680; OTTHUMP00000233681; OTTHUMP00000233682; OTTHUMP00000233740; OTTHUMP00000233741; OTTHUMP00000233742; 18 kDa phosphoprotein; cofilin, non-muscle isoform
UniProt Protein Name	Cofilin-1
UniProt Gene Name	CFL1
UniProt Synonym Gene Names	CFL
UniProt Entry Name	COF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cofilin-1-ser-3-antibody-western-blot-elisa/71517>