Cofilin (CFL1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cofilin (CFL1), Polyclonal Antibody
Full Product Name	Phospho-Cofilin Antibody BIOTIN
Product Gene Name	anti-CFL1 antibody
Product Synonym Names	Phospho-Cofilin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purified. Immobilized antigen affinity chromatography
Concentration	0.5-1.5ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	Store at -20 degree C for long term storage
Matching Pairs	Antibody: Cofilin (MBS5401257) Positive Control: Cofilin (MBS5401295)
Antibody/Peptide Pairs	Cofilin peptide (MBS5401421) is used for blocking the activity of Cofilin antibody (MBS5401257)
Molecular Weight	18,502 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (65622282..65625804, complement). Location: 11q13
OMIM	601442
3D Structure	ModBase 3D Structure for P23528
Immunogen	Synthetic peptide corresponding to amino acids within region 1-50 on human Phosphorylated Cofilin.
Conjugation	BIOTIN
Modification	Phosphorylated
Applications Tested/Suitable for anti-CFL1 antibody	ELISA (EIA), Immunoprecipitation (IP), Western Blot (WB)
Related Product Information for anti-CFL1 antibody	MBS5401257 is an antibody targeting CFL1. Also known as Phospho-Cofilin Antibody BIOTIN. Reactive in Human, Mouse, Rat. Host: Rabbit. BIOTIN-Conjugated Phosphorylated Cofilin Antibody
Other Notes	Small volumes of anti-CFL1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CFL1. It may not necessarily be applicable to this product.

NCBI GI #	5031635
NCBI GeneID	1072
NCBI Accession #	NP_005498.1

UniProt Primary Accession #	P23528
UniProt Secondary Accession #	Q53Y87; Q9UCA2; B3KUQ1
UniProt Related Accession #	P23528
GenBank Nucleotide #	NM_005507.2
NCBI Official Full Name	cofilin-1
NCBI Official Synonym Full Names	cofilin 1 (non-muscle)
NCBI Official Symbol	CFL1
NCBI Official Synonym Symbols	CFL
UniProt Protein Name	Cofilin-1
UniProt Synonym Protein Names	18 kDa phosphoprotein; p18; Cofilin, non-muscle isoform
Protein Family	Cofilin
UniProt Gene Name	CFL1
UniProt Synonym Gene Names	CFL; p18
UniProt Entry Name	COF1_HUMAN
NCBI Protein Information	cofilin-1; p18; 18 kDa phosphoprotein; cofilin, non-muscle isoform
NCBI Summary for CFL1	The protein encoded by this gene can polymerize and depolymerize F-actin and G-actin in a pH-dependent manner. Increased phosphorylation of this protein by LIM kinase aids in Rho-induced reorganization of the actin cytoskeleton. 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.[supplied by OMIM, Apr 2004]
UniProt Comments for CFL1	Cofilin-1: a cytoskeletal protein that controls actin depolymerization. Has a 5-10-fold higher affinity for ATP-actin monomers than cofilin-1. May promote filament assembly rather than disassembly. Two alternatively spliced variants are described. Isoform b is expressed predominantly in skeletal muscle and heart, while isoform a is expressed in various tissues. Protein type: Cytoskeletal; Motility/polarity/chemotaxis; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 11q13 Cellular Component: extracellular space; cortical actin cytoskeleton; focal adhesion; nuclear matrix; membrane; cytoplasm; intercellular junction; nucleus; vesicle Molecular Function: protein binding; actin binding Biological Process: platelet activation; axon guidance; actin filament depolymerization; positive regulation of actin filament depolymerization; response to virus; negative regulation of cell size; cytoskeleton organization and biogenesis; response to amino acid stimulus; protein amino acid phosphorylation; Rho protein signal transduction; neural fold formation; platelet degranulation; cytokinesis after mitosis; protein import into nucleus; establishment of cell polarity; ephrin receptor signaling pathway; regulation of cell morphogenesis; innate immune response; actin cytoskeleton organization and biogenesis; blood coagulation; neural crest cell migration; negative regulation of apoptosis
Research Articles on CFL1	**1.** study demonstrated for the first time the role of cofilin-1 in modulating cell invasion in oral carcinomas
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