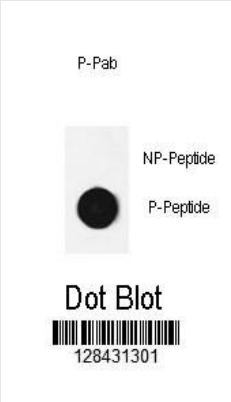
Cofilin (CFL) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cofilin (CFL), Polyclonal Antibody
Full Product Name	Cofilin, Phosphorylated (Ser3) (CFL1, CFL, Cofilin-1, 18kD phosphoprotein, Cofilin, non-muscle isoform) (APC)
Product Gene Name	anti-CFL antibody
Product Synonym Gene Name	CFL1
Product Synonym Names	CFL1; CFL; Cofilin-1; 18kD phosphoprotein; Cofilin; non-muscle isoform
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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	Phospho-Cofilin-Ser3 antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide surrounding Ser3 of human Cofilin.
Conjugate	APC
Antigen Modification	Phosphorylated
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CFL antibody	Antibodies; Actin Related Proteins
Applications Tested/Suitable for anti-CFL antibody	FLISA, Dot Blot (DB)
Application Notes for anti-CFL antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CFL antibody	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.

Product References and Citations for anti-CFL antibody	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).
Other Notes	Small volumes of anti-CFL 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.
Searchable Terms for CFL purchase	MBS6287505 is an antibody targeting CFL. Also known as Cofilin, Phosphorylated (Ser3) (CFL1, CFL, Cofilin-1, 18kD phosphoprotein, Cofilin, non-muscle isoform) (APC). Reactive in Human. Host: Rabbit.



Dot Blot (DB) of anti-CFL antibody
Dot blot analysis of anti-Phospho-Cofilin (Ser3) antibody Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CFL. 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 CFL	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 CFL	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 CFL	**1.** study demonstrated for the first time the role of cofilin-1 in modulating cell invasion in oral carcinomas
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