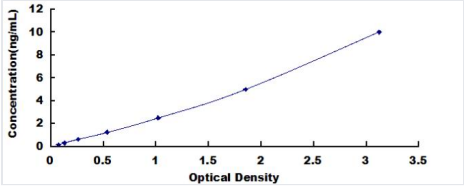
Cofilin 1, Non Muscle (CFL1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cofilin 1, Non Muscle (CFL1), ELISA Kit
Full Product Name	Human Cofilin 1, Non Muscle (CFL1) ELISA Kit
Product Gene Name	CFL1 elisa kit
Product Synonym Names	CFL; p18; N-Cofilin; 18 kDa phosphoprotein
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.056ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	18,502 Da
OMIM	601442
3D Structure	ModBase 3D Structure for P23528
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CFL1 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CFL1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CFL1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CFL1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CFL1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CFL1 elisa kit 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 CFL1 purchase	MBS458332 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cofilin 1, Non Muscle (CFL1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CFL1. The ELISA analytical biochemical technique of the MBS458332 kit is based on CFL1 antibody-CFL1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CFL1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CFL1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CFL1 elisa kit

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
NCBI Official Symbol	CFL1
NCBI Official Synonym Symbols	CFL; cofilin; HEL-S-15
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
NCBI Protein Information	cofilin-1
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	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 (PubMed:11812157, PubMed:15580268, PubMed:21834987, PubMed:23633677). Required for neural tube morphogenesis and neural crest cell migration ().
Research Articles on CFL1	**1.** Cofilin-1 plays a dominant role in angiotensin-(1-7)-induced G0/G1 arrest and autophagy to maintain cellular homeostasis in human aortic endothelial cells
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