Recombinant Human CFL2

Cat. No. CFL2-26779TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cofilin 2 with N terminal proprietary tag; Predicted MWt 44.33 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	166 amino acids
Description	This gene encodes an intracellular protein that is involved in the regulation of actin-filament dynamics. This protein is a major component of intranuclear and cytoplasmic actin rods. It can bind G- and F-actin in a 1:1 ratio of cofilin to actin, and it reversibly controls actin polymerization and depolymerization in a pH-dependent manner. Mutations in this gene cause nemaline myopathy type 7, a form of congenital myopathy. Alternative splicing results in multiple transcript variants.
Molecular Weight	44.330kDa inclusive of tags
Tissue specificity	Isoform CFL2b is expressed predominantly in skeletal muscle and heart. Isoform CFL2a is expressed in various tissues.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MASGVTVNDEVIKVFNDMKVRKSSTQEEIKKRKKAVLFCL SDDKRQIIVEEAKQILVG DIGDTVEDPYTSFVKLLPLNDC RYALYDATYETKESKKEDLVFIFWAPESAPLKSKMI YASS KDAIKKKFTGIKHEWQVNGLDDIKDRSTLGEKLGGNVVVS LEGKPL
Sequence Similarities	Belongs to the actin-binding proteins ADF family.Contains 1 ADF-H domain.

GENE INFORMATION

Gene Name	CFL2 cofilin 2 (muscle) [Homo sapiens]
Official Symbol	CFL2
Synonyms	CFL2; cofilin 2 (muscle); cofilin-2;
Gene ID	1073
mRNA Refseq	NM_001243645
Protein Refseq	NP_001230574
MIM	601443
Uniprot ID	Q9Y281
Chromosome Location	14q13.2

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Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Caspase cascade in apoptosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem;
Function	actin binding; protein binding;

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