10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CFL2 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant CFL2.
Catalog # AT1507a

Specification

CFL2 Antibody (monoclonal) (M03) - Product Information

Application	**WB, IHC, IF, E**
Primary Accession	Q9Y281
Other Accession	NM_021914
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**18737**

CFL2 Antibody (monoclonal) (M03) - Additional Information

Gene ID 1073

Other Names
Cofilin-2, Cofilin, muscle isoform, CFL2

Target/Specificity
CFL2 (NP_068733, 57 a.a. ~ 166 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000
IHC~~1:100~500
IF~~1:50~200
E~~N/A

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
CFL2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

CFL2 Antibody (monoclonal) (M03) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot

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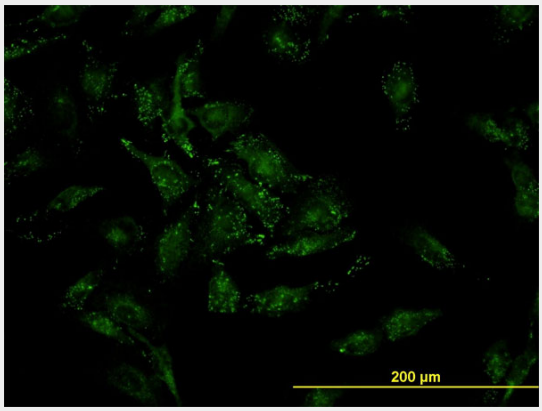
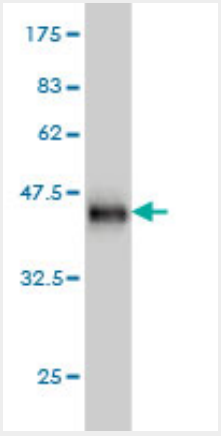
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

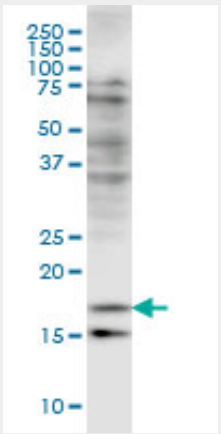
CFL2 Antibody (monoclonal) (M03) - Images



Immunofluorescence of monoclonal antibody to CFL2 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



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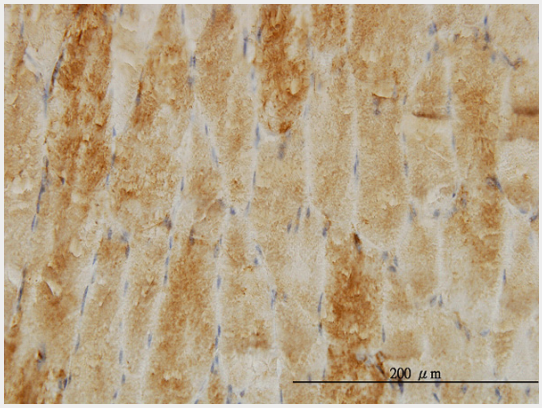
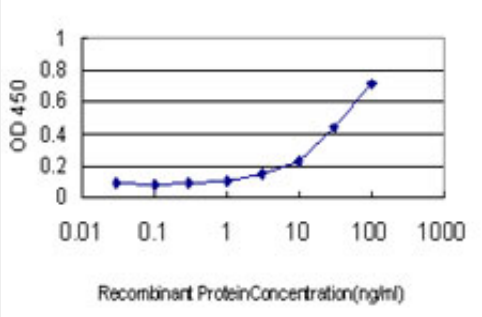
CFL2 monoclonal antibody (M03), clone 6G9 Western Blot analysis of CFL2 expression in HeLa ((Cat # AT1507a)



Immunoperoxidase of monoclonal antibody to CFL2 on formalin-fixed paraffin-embedded human skeletal muscle. [antibody concentration 8 ug/ml]



Detection limit for recombinant GST tagged CFL2 is approximately 1ng/ml as a capture antibody.

CFL2 Antibody (monoclonal) (M03) - Background

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.

CFL2 Antibody (monoclonal) (M03) - References

Muscle LIM protein interacts with cofilin 2 and regulates F-actin dynamics in cardiac and skeletal muscle. Papalouka V, et al. Mol Cell Biol, 2009 Nov. PMID 19752190.Cofilin activation in peripheral CD4 T cells of HIV-1 infected patients: a pilot study. Wu Y, et al. Retrovirology, 2008 Oct 17. PMID 18928553.Nemaline myopathy with minicores caused by mutation of the CFL2 gene encoding the skeletal muscle actin-binding protein, cofilin-2. Agrawal PB, et al. Am J Hum Genet, 2007 Jan. PMID 17160903.Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. Cell, 2006 Nov 3. PMID 17081983.Cofilin cross-bridges adjacent actin protomers and replaces part of the longitudinal F-actin interface. Kudryashov DS, et al. J Mol Biol, 2006 May 5. PMID 16530787.