

Filamin C Antibody

✓ 100 µl
(10 western blots)



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New 02/13

For Research Use Only. Not For Use In Diagnostic Procedures.

Entrez-Gene ID #2318
Swiss-Prot Acc. #Q14315

Applications W Endogenous	Species Cross-Reactivity* H, (Mk)	Molecular Wt. 290 kDa	Source Rabbit**
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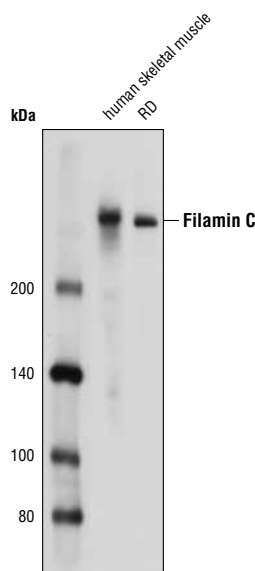
Background: Filamins are a family of dimeric actin binding proteins that function as structural components of cell adhesion sites. They also serve as a scaffold for subcellular targeting of signaling molecules (1). The actin binding domain (alpha-actinin domain) located at the amino terminus is followed by as many as 24 tandem repeats of about 96 residues and the dimerization domain is located at the carboxy terminus. In addition to actin filaments, filamins associate with other structural and signaling molecules such as beta integrins, Rho/Rac/Cdc42, PKC, and the insulin receptor, primarily through the carboxy-terminal dimerization domain (1-3). Filamin A, the most abundant, and filamin B are widely expressed isoforms, while filamin C is predominantly expressed in muscle (1). Filamin A is phosphorylated by PAK1 at Ser2152, which is required for PAK1-mediated actin cytoskeleton reorganization (4).

Specificity/Sensitivity: Filamin C Antibody recognizes endogenous levels of total filamin C protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human filamin C protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Stossel, T. P. et al. (2001) *Nat. Rev. Mol. Cell Biol.* 2, 138-145.
- (2) Tigges, U. et al. (2003) *J. Biol. Chem.* 278, 23561-23569.
- (3) He, H. et al. (2003) *J. Biol. Chem.* 278, 27096-27104.
- (4) Vadlamudi, R. K. et al. (2002) *Nat. Cell Biol.* 4, 681-690.



Western blot analysis of extracts from human skeletal muscle and RD cells using Filamin C Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.