Filamin A Antibody

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

Applications: W
Endogenous

Species Cross-Reactivity: H, M, R, Mk

Molecular Wt: 280 kDa
Source: Rabbit**

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 (α-actinin domain) is located at the very amino-terminus, followed by as many as 24 tandem repeats of about 96 residues, and the dimerization domain is located at the carboxy terminal end of the protein. In addition to actin filaments, filamins associate with other structural and signaling molecules such as β-integrins, Rho/Rac/Cdc42, PKC, and insulin receptor, primarily through their carboxy terminal half (1-3). Filamin A, the most abundant, and filamin B, less abundant, are widely expressed isoforms, while filamin C is predominantly expressed in muscle (1). Ser2152 of filamin A is phosphorylated by PAK1, and this phosphorylation is required for PAK1-mediated actin cytoskeleton reorganization (4).

Specificity/Sensitivity: Filamin A Antibody detects endogenous levels of total filamin A protein. This antibody may cross-react with filamin B and C.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with synthetic peptides corresponding to human filamin A. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

Recommended Antibody Dilutions:
Western Blotting: 1:1000

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

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.

Entrez-Gene ID #P21333
Swiss-Prot Acc. #2316

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  IH—Immunohistochemistry  CIP—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  Mm—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.

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