

# Product datasheet

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# ARG58986 anti-Filamin A antibody

Package: 100 μl Store at: -20°C

### **Summary**

Product Description Rabbit Polyclonal antibody recognizes Filamin A

Tested Reactivity Hu, Ms

Tested Application IP, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Filamin A
Species Human

Immunogen Recombinant fusion protein corresponding to aa. 2348-2647 of Human Filamin A (NP\_001104026.1).

Conjugation Un-conjugated

Alternate Names Endothelial actin-binding protein; ABP-280; XMVD; ABPX; Actin-binding protein 280; FLN1; MNS; OPD1;

XLVD; OPD2; OPD; Non-muscle filamin; CSBS; Filamin-A; FLN-A; FLN; NHBP; Filamin-1; FMD; Alpha-

filamin; CVD1

### **Application Instructions**

| Application table | Application  | Dilution       |
|-------------------|--|----------------|
|                   | IP   | 1:50 - 1:100   |
|                   | WB   | 1:500 - 1:2000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |
| Positive Control  | Jurkat   |                |
| Observed Size     | 300 kDa  |                |

### **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

### Bioinformation

Gene Symbol FLNA

Gene Full Name filamin A, alpha

Background The protein encoded by this gene is an actin-binding protein that crosslinks actin filaments and links

actin filaments to membrane glycoproteins. The encoded protein is involved in remodeling the cytoskeleton to effect changes in cell shape and migration. This protein interacts with integrins, transmembrane receptor complexes, and second messengers. Defects in this gene are a cause of several syndromes, including periventricular nodular heterotopias (PVNH1, PVNH4), otopalatodigital syndromes (OPD1, OPD2), frontometaphyseal dysplasia (FMD), Melnick-Needles syndrome (MNS), and X-linked congenital idiopathic intestinal pseudoobstruction (CIIPX). Two transcript variants encoding

different isoforms have been found for this gene.[provided by RefSeq, Mar 2009]

Function Promotes orthogonal branching of actin filaments and links actin filaments to membrane glycoproteins.

Anchors various transmembrane proteins to the actin cytoskeleton and serves as a scaffold for a wide range of cytoplasmic signaling proteins. Interaction with FLNA may allow neuroblast migration from the ventricular zone into the cortical plate. Tethers cell surface-localized furin, modulates its rate of internalization and directs its intracellular trafficking (By similarity). Involved in ciliogenesis. [UniProt]

Calculated Mw 281 kDa

PTM Phosphorylation at Ser-2152 is negatively regulated by the autoinhibited conformation of filamin

repeats 19-21. Ligand binding induces a conformational switch triggering phosphorylation at Ser-2152

by PKA.

Phosphorylation extent changes in response to cell activation.

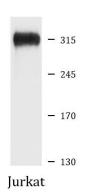
Polyubiquitination in the CH1 domain by a SCF-like complex containing ASB2 leads to proteasomal

degradation. Prior dissociation from actin may be required to expose the target lysines

(PubMed:24052262). Ubiquitinated in endothelial cells by RNF213 downstream of the non-canonical Wnt signaling pathway, leading to its degradation by the proteasome (PubMed:26766444). [UniProt]

Cellular Localization Cytoplasm, cell cortex, cytoskeleton. [UniProt]

### **Images**



### ARG58986 anti-Filamin A antibody WB image

Western blot: 25  $\mu g$  of Jurkat cell lysate stained with ARG58986 anti-Filamin A antibody at 1:1000 dilution.

# Filamin A antibody Isotype Control 745

- 180

## ARG58986 anti-Filamin A antibody IP image

Immunoprecipitation: 200  $\mu g$  extracts of Jurkat cells were immunoprecipitated and stained with ARG58986 anti-Filamin A antibody at 1:1000 dilution.