

### FLNA / Filamin A Antibody (clone 4E10-1B2)

Mouse Monoclonal Antibody Catalog # ALS14377

### **Specification**

## FLNA / Filamin A Antibody (clone 4E10-1B2) - Product Information

Application WB, IHC
Primary Accession P21333
Reactivity Human
Host Mouse
Clonality Monoclonal
Calculated MW 281kDa KDa

### FLNA / Filamin A Antibody (clone 4E10-1B2) - Additional Information

**Gene ID 2316** 

#### **Other Names**

Filamin-A, FLN-A, Actin-binding protein 280, ABP-280, Alpha-filamin, Endothelial actin-binding protein, Filamin-1, Non-muscle filamin, FLNA, FLN1

# **Target/Specificity**

Human FLNA

### **Reconstitution & Storage**

Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

#### **Precautions**

FLNA / Filamin A Antibody (clone 4E10-1B2) is for research use only and not for use in diagnostic or therapeutic procedures.

# FLNA / Filamin A Antibody (clone 4E10-1B2) - Protein Information

# **Name FLNA**

Synonyms FLN, FLN1

#### **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 FLNB 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. Plays a role in cell-cell contacts and adherens junctions during the development of blood vessels, heart and brain organs. Plays a role in platelets morphology through interaction with SYK that regulates ITAM- and ITAM-like-containing receptor signaling, resulting in by platelet cytoskeleton organization maintenance (By similarity). During the axon guidance process, required for growth cone collapse induced by SEMA3A-mediated stimulation of



neurons (PubMed:<a href="http://www.uniprot.org/citations/25358863" target=" blank">25358863</a>).

#### **Cellular Location**

Cytoplasm, cell cortex. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q8BTM8}. Perikaryon {ECO:0000250|UniProtKB:Q8BTM8}. Cell projection, growth cone {ECO:0000250|UniProtKB:Q8BTM8}. Cell projection, podosome {ECO:0000250|UniProtKB:Q8BTM8}. Note=Colocalizes with CPMR1 in the central region of DRG neuron growth cone (By similarity). Following SEMA3A stimulation of DRG neurons, colocalizes with F-actin (By similarity). Localized to the core of myotube podosomes (By similarity). {ECO:0000250|UniProtKB:Q8BTM8}

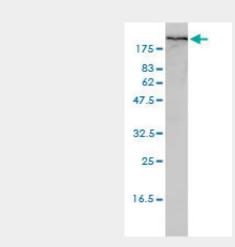
**Tissue Location** Ubiquitous.

# FLNA / Filamin A Antibody (clone 4E10-1B2) - Protocols

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

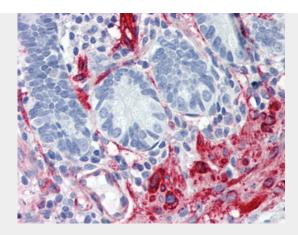
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# FLNA / Filamin A Antibody (clone 4E10-1B2) - Images



Western blot of FLNA expression in HL-60 cell lysate.





Anti-FLNA / FMD antibody IHC of human small intestine.

# FLNA / Filamin A Antibody (clone 4E10-1B2) - Background

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.

# FLNA / Filamin A Antibody (clone 4E10-1B2) - References

Gorlin J.B.,et al.J. Cell Biol. 111:1089-1105(1990). Patrosso M.C.,et al.Genomics 21:71-76(1994). Chen E.Y.,et al.Hum. Mol. Genet. 5:659-668(1996). Li J.,et al.Mol. Cell. Proteomics 9:2517-2528(2010). Ota T.,et al.Nat. Genet. 36:40-45(2004).