

Rabbit Filamin A Polyclonal Antibody | anti-FLNA antibody

Phospho-Filamin A (Ser2152) Antibody

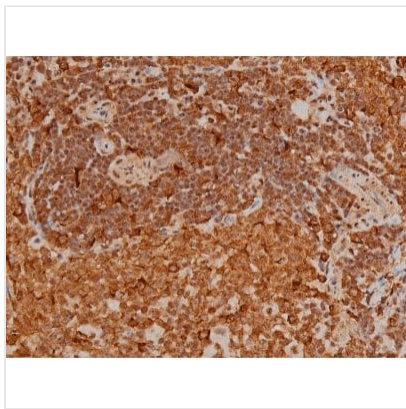
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31022	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

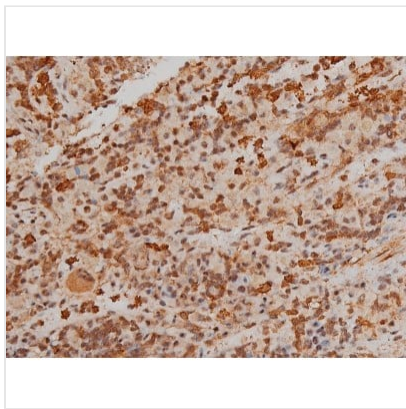
Filamin A; Polyclonal Antibody; Phospho-Filamin A (Ser2152) Antibody; ABP 280; ABP-280; Actin-binding protein 280; Alpha filamin; Alpha-filamin; APBX; CSBS; CVD1; Endothelial actin binding protein; Endothelial actin-binding protein; Filamin 1; Filamin A alpha; Filamin-1; Filamin-A; FLN; FLN-A; FLN1; FLNA; FLNA_HUMAN; FMD; MNS; NHBP; Non muscle filamin; Non-muscle filamin; OPD; OPD1; OPD2; XLVD; XMVD; anti-FLNA antibody

PRODUCT SPECIFICATIONS

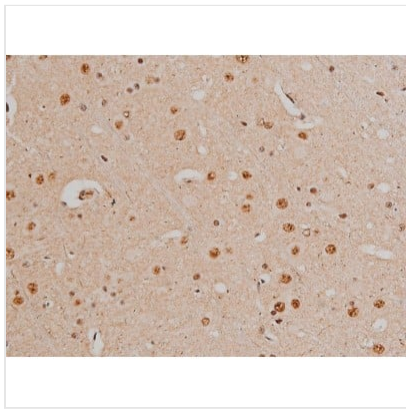
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Filamin A (Ser2152) antibody detects endogenous levels of Filamin A only when phosphorylated at Serine 2152
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	2647
Applicable Applications for anti-FLNA antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:100-1:500 IF/ICC: 1:100-1:500
Immunogen	A synthesized peptide derived from human Filamin A around the phosphorylation site of Serine 2152
Subcellular Location	Cytoplasm > Cell Cortex. Cytoplasm > Cytoskeleton.
Tissue Specificity	Ubiquitous.
Predicted Cross Reactivity	Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Zebrafish (82%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser2152
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



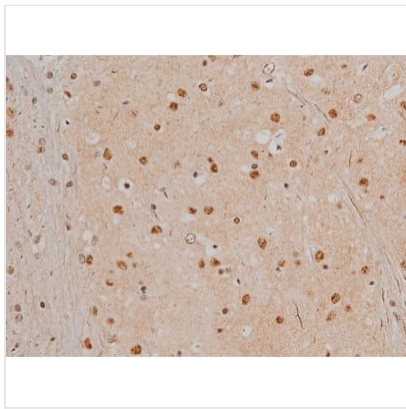
IHC (Immunohistochemistry)
AAA31022 at 1/200 staining Rat spleen tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



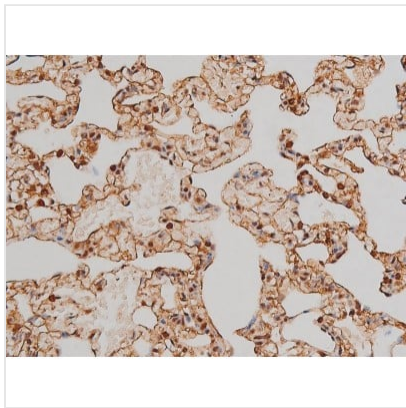
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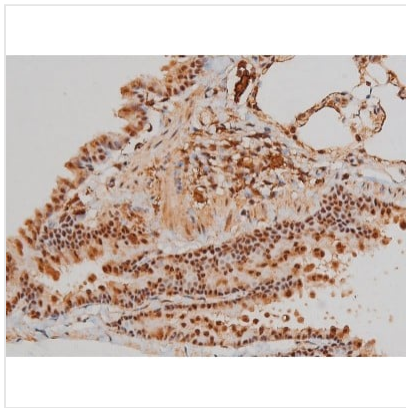
IHC (Immunohistochemistry)
AAA31022 at 1/200 staining Rat brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA31022 at 1/200 staining Rat brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA31022 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA31022 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-FLNA antibody	Description: FLNA a ubiquitous cytoskeletal protein that promotes orthogonal branching of actin filaments and links actin filaments to membrane glycoproteins. Plays an essential role in embryonic cell migration. Anchors various transmembrane proteins to the actin cytoskeleton and serves as a scaffold for a wide range of cytoplasmic signaling proteins. 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. 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). Subunit Structure: Homodimer. Interacts with PDLIM2 (By similarity). Interacts with RFLNA and RFLNB (By similarity). Interacts with FCGR1A, FLNB, FURIN, HSPB7, INPPL1, KCND2, MYOT, MYOZ1, ARHGAP24, PSEN1, PSEN2 and ECSCR. Interacts also with various other binding partners in addition to filamentous actin. Interacts (via N-terminus) with MIS18BP1 (via N-terminus). Interacts (via N-terminus) with TAF1B. Interacts with TMEM67 (via C-terminus) and MKS1. Interacts (via actin-binding domain) with MICALL2 (via CH domain). Interacts (via filamin repeat 5) with SYK; docks SYK to the plasma membrane (PubMed:20713593). Interacts (via filamin repeats 19 and 21) with DRD3; increased PKA-mediated phosphorylation at Ser-2152. Interacts (via filamin repeat 21) with MAS1, AGTR1 and ADRA1D; increases PKA-mediated phosphorylation of FLNA at Ser-2152 (PubMed:26460884). Interacts (via filamin repeats 4, 9, 12, 17, 19, 21, and 23) with GP1BA (high affinity), ITGB7, ITGB2 and FBLIM1 (PubMed:19828450, PubMed:21524097, PubMed:25666618). Interacts with CEACAM1 (via cytoplasmic domain); inhibits cell migration and cell scattering by interfering with the interaction between FLNA and RALA (PubMed:16291724). Interacts with FOXC1 (PubMed:15684392). Post-translational Modifications: 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). Similarity: Comprised of a NH2-terminal actin-binding domain, 24 immunoglobulin-like internally homologous repeats and two hinge regions. Repeat 24 and the second hinge domain are important for dimer formation. Filamin repeat 20 interacts with filamin repeat 21 masking the ligand binding site on filamin repeat 21, resulting in an autoinhibited conformation (PubMed:17690686). The autoinhibition can be relieved by ligands like ITGB7 or FBLIM1 (PubMed:21524097). Filamin repeats 19 and 21 can simultaneously engage ligands (PubMed:21524097). Belongs to the filamin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	160420317
NCBI GeneID	2316
NCBI Accession #	NP_001104026.1
NCBI GenBank Nucleotide #	NM_001110556.1
UniProt Accession #	P21333; Q5HY53; Q5HY55; Q8NF52; E9KL45
Molecular Weight	Observed: 280 kDa Predicted: 281 kDa
NCBI Official Full Name	filamin-A isoform 2
NCBI Official Synonym Full Names	filamin A
NCBI Official Symbol	FLNA
NCBI Official Synonym Symbols	FLN; FMD; MNS; OPD; ABPX; CSBS; CVD1; FGS2; FLN1; NHBP; OPD1; OPD2; XLVD; XMVD; FLN-A; ABP-280
NCBI Protein Information	filamin-A

UniProt Protein Name	Filamin-A
UniProt Gene Name	FLNA
UniProt Synonym Gene Names	FLN; FLN1; FLN-A; ABP-280

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/filamin-a-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/31022>