ARG58261
anti-Filamin A phospho (Ser2152) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Filamin A phospho (Ser2152)
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Filamin A
Species	Human
Immunogen	Phospho specific peptide around Ser2152 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
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	C6 + CIP
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.
Note	For laboratory research only, not for drug, diagnostic or other 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

ARG58261 anti-Filamin A phospho (Ser2152) antibody WB image

Western blot: 25 µg of C6 cells treated by CIP (20 µl CIP for each 400 µl cell lysate) at 37°C for 1 hour. The blot was stained with ARG58261 anti-Filamin A phospho (Ser2152) antibody at 1:1000 dilution.