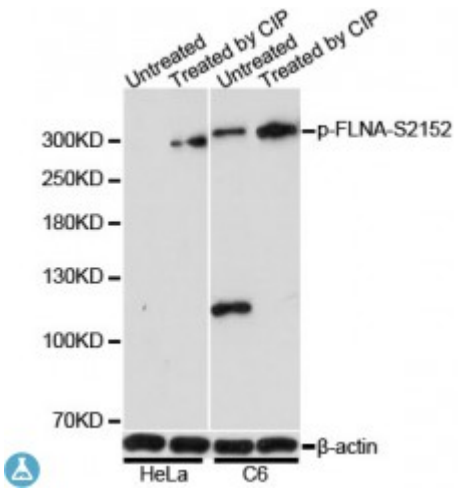
Anti-Phospho-FLNA-(S2152) Antibody



Description	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.

Model	STJ117881
Host	Rabbit
Reactivity	Human, Mouse
Applications	WB
Immunogen	A synthetic phosphorylated peptide around S2152 of human FLNA (NP_001104026.1).
Gene ID	2316
Gene Symbol	FLNA
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Ubiquitous
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	Filamin-A FLN-A Actin-binding protein 280 ABP-280 Alpha-filamin Endothelial actin-binding protein Filamin-1 Non-muscle filamin
Molecular Weight	280.739 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:3754OMIM:300017Reactome:R-HSA-114608
Alternative Names	Filamin-A FLN-A Actin-binding protein 280 ABP-280 Alpha-filamin Endothelial actin-binding protein Filamin-1 Non-muscle filamin
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 , 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 ,
Cellular Localization	Cytoplasm, cell cortex, Cytoplasm, cytoskeleton
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,