

Product datasheet

Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY] ab75978

Recombinant RabMAb

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Overview

Product name	Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY]
Description	Rabbit monoclonal [EP2310AY] to Filamin A (phospho S2152) + Filamin B (phospho S2107)
Host species	Rabbit
Specificity	ab75978 detects Filamin A phosphorylated on serine 2152 and Filamin B phosphorylated on serine 2107.
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293, NIH/3T3, and C6 whole cell lysates. IHC-P: Human, Mouse, and Rat kidney tissue.
General notes	<p>This product has switched from a hybridoma to recombinant production method on 9th June 2023.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality Monoclonal
Clone number EP2310AY
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab75978 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

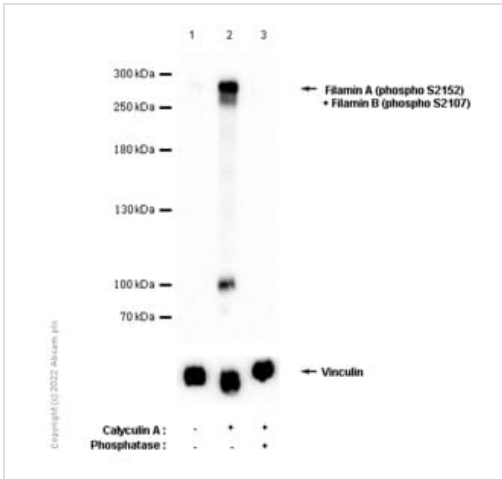
Application	Abreviews	Notes
WB		1/100000. Detects a band of approximately 281 kDa (predicted molecular weight: 281 kDa).
IHC-P		1/1200. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt or IP.

Target

Relevance Filamin A-P21333. 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. Filamin B-O75369. Function: Connects cell membrane constituents to the actin cytoskeleton. May promote orthogonal branching of actin filaments and links actin filaments to membrane glycoproteins. Anchors various transmembrane proteins to the actin cytoskeleton. Interaction with FLNA may allow neuroblast migration from the ventricular zone into the cortical plate. Various interactions and localizations of isoforms affect myotube morphology and myogenesis. Isoform 6 accelerates muscle differentiation in vitro.

Images



Western blot - Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY] (ab75978)

All lanes : Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY] (ab75978) at 1/100000 dilution

Lane 1 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate

Lane 2 : HEK-293 (Human embryonic kidney epithelial cell) treated with 50nM Calyculin A for 3 hours whole cell lysate

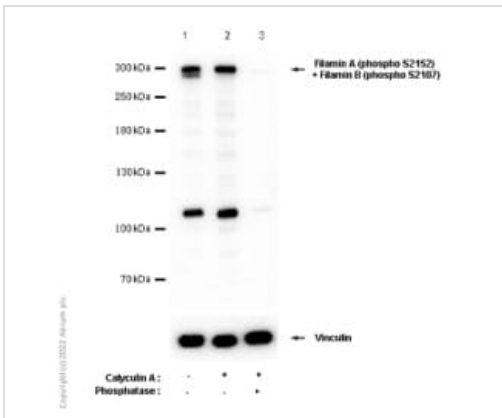
Lane 3 : HEK-293 (Human embryonic kidney epithelial cell) treated with 50nM Calyculin A for 3 hours whole cell lysate, then the membrane was incubated with Alkaline phosphatase

Lysates/proteins at 15 µg per lane.

Predicted band size: 281 kDa

Exposure time: 10 seconds

Blocking and diluting buffer and concentration: 5% NFDm/TBST.



Western blot - Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY] (ab75978)

All lanes : Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY] (ab75978) at 1/100000 dilution

Lane 1 : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

Lane 2 : NIH/3T3 (Mouse embryonic fibroblast) treated with 100nM Calyculin A for 30 minutes whole cell lysate

Lane 3 : Calyculin A for 30 minutes whole cell lysate, then the membrane was incubated with Alkaline phosphatase

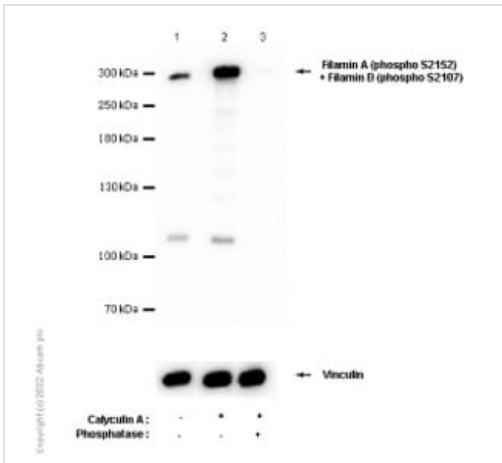
Lysates/proteins at 15 µg per lane.

Predicted band size: 281 kDa

Observed band size: 280 kDa

Exposure time: 10 seconds

Blocking and diluting buffer and concentration: 5% NFDm/TBST.



Western blot - Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY] (ab75978)

All lanes : Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY] (ab75978) at 1/100000 dilution

Lane 1 : C6 (Rat glial tumor glial cell) whole cell lysate

Lane 2 : C6 (Rat glial tumor glial cell) treated with 100nM Calyculin A for 30 minutes whole cell lysate

Lane 3 : C6 (Rat glial tumor glial cell) treated with 100nM Calyculin A for 30 minutes whole cell lysate, then the membrane was incubated with Alkaline phosphatase

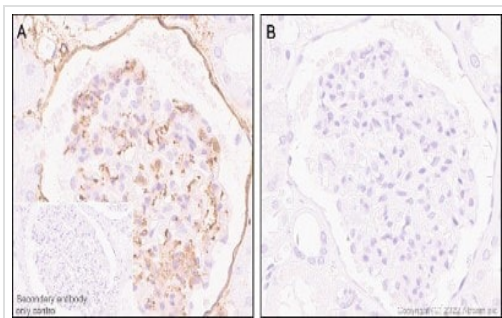
Lysates/proteins at 15 µg per lane.

Predicted band size: 281 kDa

Observed band size: 280 kDa

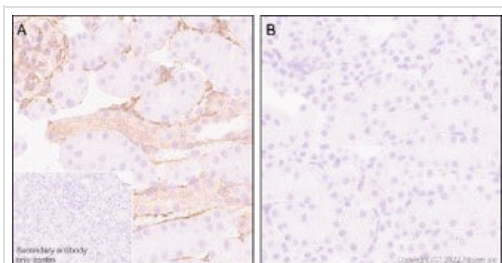
Exposure time: 10 seconds

Blocking and diluting buffer and concentration: 5% NFDN/TBST.



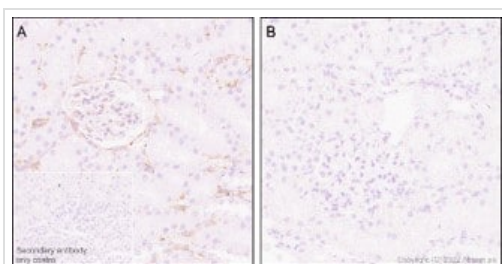
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY] (ab75978)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labelling Filamin A (phospho S2152) + Filamin B (phospho S2107) with ab75978 at 1/1200 dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on Human kidney tissue without alkaline phosphatase treatment (A) compared to no signal detected when treated with alkaline phosphatase (B). The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval Solution2) for 30 mins. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY] (ab75978)

Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labelling Filamin A (phospho S2152) + Filamin B (phospho S2107) with ab75978 at 1/1200 dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on Mouse kidney tissue without alkaline phosphatase treatment (A) compared to no signal detected when treated with alkaline phosphatase (B). The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval Solution2) for 30 mins. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Filamin A (phospho S2152) + Filamin B (phospho S2107) antibody [EP2310AY] (ab75978)

Immunohistochemical analysis of paraffin-embedded Rat kidney tissue labelling Filamin A (phospho S2152) + Filamin B (phospho S2107) with ab75978 at 1/1200 dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on Rat kidney tissue without alkaline phosphatase treatment (A) compared to no signal detected when treated with alkaline phosphatase (B). The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval Solution2) for 30 mins. Counterstained with hematoxylin.

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