abcam

ab76289

Anti-Filamin A antibody [EP2405Y]

Anti-Filamin A antibody [EP2405Y] (ab76289) is a rabbit monoclonal antibody detecting Filamin A in **Western Blot, Flow Cytometry (Intra), IHC-P, ICC/IF**. Suitable for **African green monkey, Human, Mouse, Rat**.

- KO validated for confirmed specificity
- Biophysical QC for unrivalled batch-batch consistency
- Over 40 publications
- Trusted since 2009

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EP2405Y
Purification technique	Affinity purification Protein A
Concentration	0.054 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	African green monkey, Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	Perform heat-mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

Expected

Species	African green monkey, Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IP

Not recommended

Species	Mouse, Rat, African green monkey, Human
Dilution info	-
Notes	-

WB

Tested

Species	African green monkey
Dilution info	1/250000 - 1/500000
Notes	-

Species	Mouse
Dilution info	1/250000 - 1/500000
Notes	-

Species	Rat
Dilution info	1/250000 - 1/500000
Notes	-

Species	Human
Dilution info	1/250000 - 1/500000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Expected

Species	African green monkey, Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information FLNA

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:25358863).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Filamin A antibody [EP2405Y] (ab76289) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in African green monkey, Human, Mouse, Rat samples.

What is the molecular weight of Filamin A?
Anti-Filamin A [EP2405Y] (ab76289) specifically detects a band for Filamin A (UniProt: P21333) at a molecular weight of 281kDa.

Trusted by the scientific community
Anti-Filamin A [EP2405Y] (ab76289) was first used in a scientific publication in 2009 and has been cited over 40 times in peer-reviewed journals.

Reviewed by scientists
Anti-Filamin A [EP2405Y] (ab76289) has over 5 independent reviews from customers.

Specificity confirmed
The specificity of Anti-Filamin A antibody [EP2405Y] (ab76289) has been confirmed by Western blot testing in FLNA Knockout HAP1 cells.

Other related products
We have a range of other formats of antibody clone [EP2405Y] also available for your convenience: ab76289, Carrier free - ab239881, Alexa Fluor® 488 - ab246749, Alexa Fluor® 647 - ab246750, PE - ab246751, APC - ab310878, Alexa Fluor® 594 - ab311706, Alexa Fluor® 568 - ab312981, Alexa Fluor® 555 - ab313188, Alexa Fluor® 750 - ab321721

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

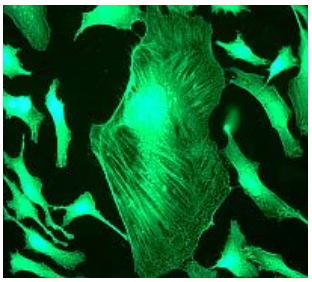
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

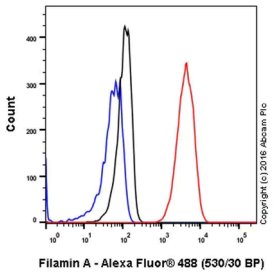
6 product images



Immunocytochemistry/ Immunofluorescence - Anti-Filamin A antibody [EP2405Y] (ab76289)

Filamin A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Filamin A antibody

Immunofluorescent staining of HeLa cells using ab76289 at a 1/100 dilution.

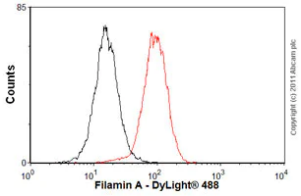


Flow Cytometry (Intracellular) - Anti-Filamin A antibody [EP2405Y] (ab76289)

Filamin A Flow Cytometry (Intracellular) staining using rabbit Anti-Filamin A antibody

ab76289 staining Filamin Ain the human cell line HeLa (human cervix adenocarcinoma) by intracellular flow cytometry. Cells were fixed with 4% paraformaldehyde, permeabilized with 90% methanol and the sample was incubated with the primary antibody at a dilution of 1/20. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody. Isoytype control: Rabbit monoclonal IgG (Black)

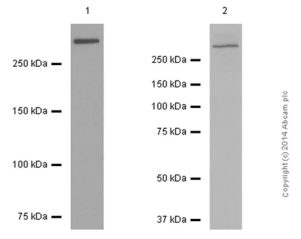
Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)



Flow Cytometry (Intracellular) - Anti-Filamin A antibody [EP2405Y] (ab76289)

Filamin A Flow Cytometry (Intracellular) staining using rabbit Anti-Filamin A antibody

Overlay histogram showing A431 cells stained with ab76289 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab76289 , 1/100 dilutio) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in A431 cells fixed with 4% paraformaldehyde/permeabilized in 0.1% PBS-Triton used under the same conditions.



Western blot - Anti-Filamin A antibody [EP2405Y] (ab76289)

Filamin A Western blot staining using rabbit Anti-Filamin A antibody

Blocking buffer: 5% NFDM/TBST
Diluting buffer: 5% NFDM/TBST

All lanes:
Western blot - Anti-Filamin A antibody [EP2405Y] (ab76289) at 1/10000 dilution

Lane 1:
HeLa (human cervix adenocarcinoma) whole cell lysate at 10 µg

Lane 2:
COS-1 (Cercopithecus aethiops kidney) whole cell lysate at 10 µg

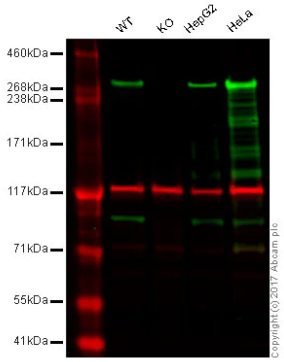
Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), HRP conjugated at 1/1000 dilution

Predicted band size: 281 kDa

Observed band size: 281 kDa

Exposure time: 30s



Western blot - Anti-Filamin A antibody [EP2405Y] (ab76289)

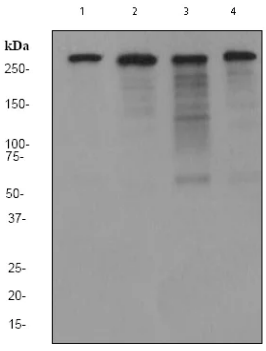
Filamin A Western blot staining using rabbit Anti-Filamin A antibody

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: FLNA knockout HAP1 whole cell lysate (20 µg)
Lane 3: HepG2 whole cell lysate (20 µg)
Lane 4: HeLa whole cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab76289 observed at 281 kDa. Red - loading control, ab18058, observed at 130 kDa.

ab76289 was shown to specifically react with FLNA when FLNA knockout samples were used. Wild-type and FLNA knockout samples were subjected to SDS-PAGE. ab76289 and ab18058 (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 250000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-Filamin A antibody [EP2405Y] (ab76289)

Predicted band size: 281 kDa



Western blot - Anti-Filamin A antibody [EP2405Y] (ab76289)

All lanes:
Western blot - Anti-Filamin A antibody [EP2405Y] (ab76289) at 1/500000 dilution

Lane 1:
COS-1 (African green monkey kidney fibroblast-like cell line) cell lysate at 10 µg

Lane 2:
Hela cell lysate at 10 µg

Lane 3:
3T3 cell lysate at 10 µg

Lane 4:
C6 cell lysate at 10 µg

Secondary

All lanes:
HRP labelled goat anti-rabbit at 1/1000 dilution

Predicted band size: 281 kDa

Observed band size: 281 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.