

Product datasheet

Anti-CLASP1 antibody [EPR3409] α ab108620

Recombinant RabMAb

5 References 10 Images

Overview

Product name	Anti-CLASP1 antibody [EPR3409]
Description	Rabbit monoclonal [EPR3409] to CLASP1
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P, Flow Cyt Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human CLASP1 aa 1-100. The exact sequence is proprietary.
Positive control	WB: U87-MG, HeLa, T47-D and C6 cell lysates and rat brain tissue lysate. IHC-P: Human and mouse kidney and human cerebral cortex tissues. ICC/IF: HeLa cells. Flow Cyt: HeLa cells.
General notes	<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> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p> <p>This product is a recombinant rabbit monoclonal antibody.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3409

Isotype IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab108620** 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
ICC/IF		1/100.
WB		1/5000 - 1/50000. Detects a band of approximately 160 kDa (predicted molecular weight: 169 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt		1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for IP.

Target

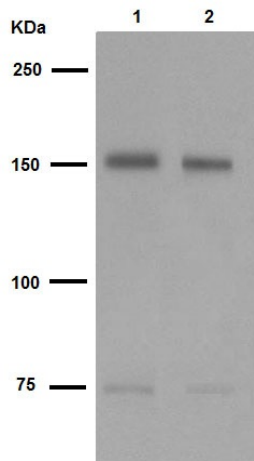
Function Microtubule plus-end tracking protein that promotes the stabilization of dynamic microtubules. Involved in the nucleation of noncentrosomal microtubules originating from the trans-Golgi network (TGN). Required for the polarization of the cytoplasmic microtubule arrays in migrating cells towards the leading edge of the cell. May act at the cell cortex to enhance the frequency of rescue of depolymerizing microtubules by attaching their plus-ends to cortical platforms composed of ERC1 and PHLDB2. This cortical microtubule stabilizing activity is regulated at least in part by phosphatidylinositol 3-kinase signaling. Also performs a similar stabilizing function at the kinetochore which is essential for the bipolar alignment of chromosomes on the mitotic spindle.

Sequence similarities Belongs to the CLASP family.
Contains 7 HEAT repeats.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization Cytoplasm > cytoskeleton. Cytoplasm > cytoskeleton > centrosome. Chromosome > centromere > kinetochore. Cytoplasm > cytoskeleton > spindle. Golgi apparatus > trans-Golgi network. Localizes to microtubule plus ends. Localizes to centrosomes, kinetochores and the mitotic spindle from prometaphase. Subsequently localizes to the spindle midzone from anaphase and to the midbody from telophase. In migrating cells localizes to the plus ends of microtubules within the cell body and to the entire microtubule lattice within the lamella. Localizes to the cell cortex and this requires ERC1 and PHLDB2.

Images



Western blot - Anti-CLASP1 antibody [EPR3409]
(ab108620)

All lanes : Anti-CLASP1 antibody [EPR3409]
(ab108620) at 1/20000 dilution (purified)

Lane 1 : U87-MG cell lysate

Lane 2 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

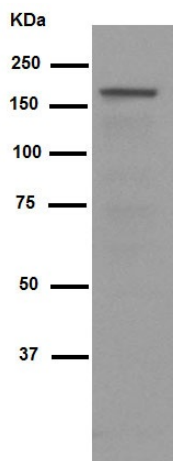
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 169 kDa

Observed band size: 160 kDa

Blocking buffer and concentration: 5%
NFDM/TBST.

Diluting buffer and concentration: 5% NFDM
/TBST.



Western blot - Anti-CLASP1 antibody [EPR3409]
(ab108620)

Anti-CLASP1 antibody [EPR3409]
(ab108620) at 1/50000 dilution (purified) +
Rat brain tissue lysate at 10 µg

Secondary

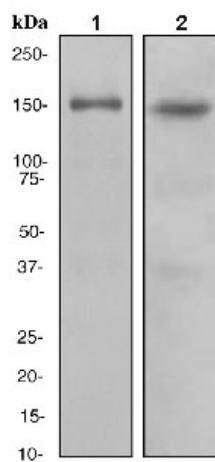
Peroxidase-conjugated goat anti-rabbit IgG
(H+L) at 1/1000 dilution

Predicted band size: 169 kDa

Observed band size: 160 kDa

Blocking buffer and concentration: 5%
NFDM/TBST.

Diluting buffer and concentration: 5% NFDM
/TBST.



Western blot - Anti-CLASP1 antibody [EPR3409]
(ab108620)

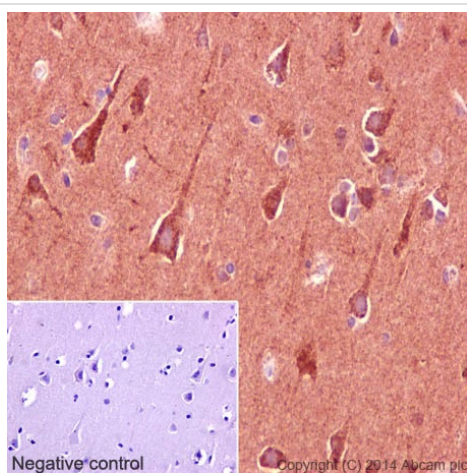
All lanes : Anti-CLASP1 antibody [EPR3409]
(ab108620) at 1/10000 dilution (unpurified)

Lane 1 : T47-D cell lysate

Lane 2 : C6 cell lysate

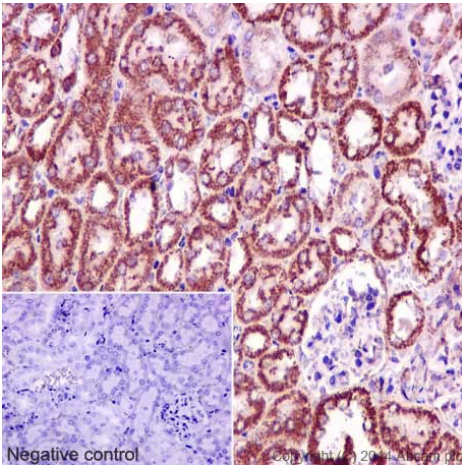
Lysates/proteins at 10 µg per lane.

Predicted band size: 169 kDa



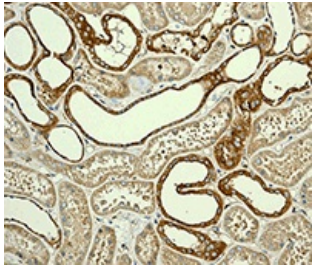
Immunohistochemistry - Free Floating - Anti-
CLASP1 antibody [EPR3409] (ab108620)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebral cortex tissue labelling CLASP1 with purified ab108620 at 1/250. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



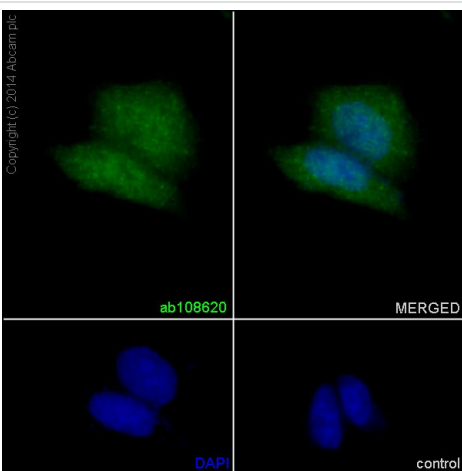
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue labeling CLASP1 with purified ab108620 at 1/250. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLASP1 antibody [EPR3409] (ab108620)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling CLASP1 with unpurified ab108620 at 1/250.

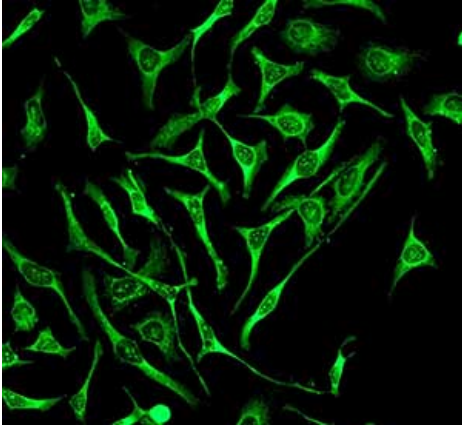
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLASP1 antibody [EPR3409] (ab108620)



Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling CLASP1 (green) with ab108620 at 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. [ab150077](#), an Alexa Fluor[®] 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

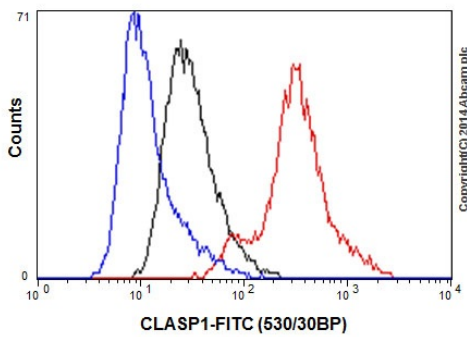
Immunocytochemistry/ Immunofluorescence - Anti-CLASP1 antibody [EPR3409] (ab108620)

Control: primary antibody (1/100) and secondary antibody, [ab150120](#) Alexa Fluor[®] 594-conjugated goat anti-mouse IgG (1/500).



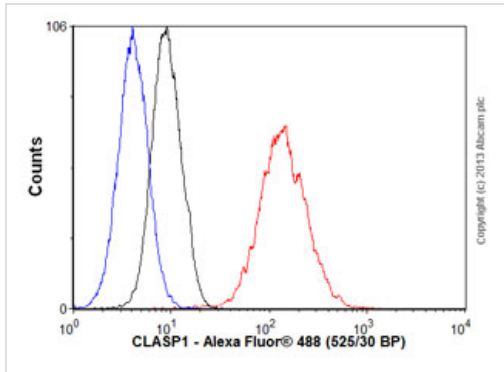
Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling CLASP1 with unpurified ab108620 at 1/100.

Immunocytochemistry/ Immunofluorescence - Anti-CLASP1 antibody [EPR3409] (ab108620)



Flow cytometry analysis of HeLa cells labelling CLASP1 with purified ab108620 at 1/50 (red). Cells were fixed with 80% methanol. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.

Flow Cytometry - Anti-CLASP1 antibody [EPR3409] (ab108620)



Flow Cytometry - Anti-CLASP1 antibody [EPR3409] (ab108620)

Overlay histogram showing HeLa cells stained with unpurified ab108620 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween 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 (ab108620, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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