abcam

Product datasheet

Anti-CLASP1 antibody ab154087

4 Images

Overview

Product name	Anti-CLASP1 antibody
Description	Rabbit polyclonal to CLASP1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Recombinant protein fragment corresponding to a region within amino acids 1-179 of Human CLASP1 (Q7Z460).
Positive control	HepG2 and mouse brain whole cell lysates; 4T1 xenograft tissue; HeLa cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab154087 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		1/500 - 1/3000. Predicted molecular weight: 16 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/1000.

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.

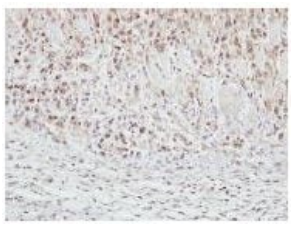
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

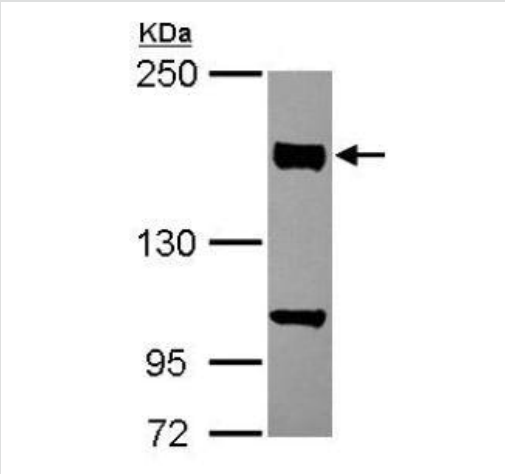
Cytoplasm > cytoskeleton. Cytoplasm > cytoskeleton > centrosome. Chromosome > centromere > kinetochore. Cytoplasm > cytoskeleton > spindle. Golgi apparatus > trans-Golgi network. Localizes to microtubule plus ends. Localizes to centrosomes, kinetochores and the mitotic spindle from prometaphase. Subsequently 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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CLASP1 antibody (ab154087)

Immunohistochemical analysis of paraffin-embedded 4T1 xenograft tissue labeling CLASP1 with ab154087 at 1/100 dilution.

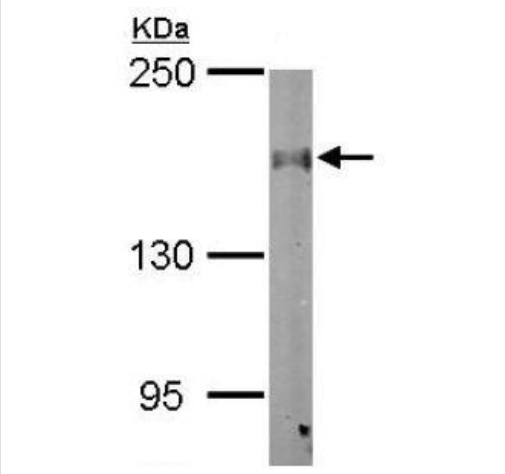


Western blot - Anti-CLASP1 antibody (ab154087)

Anti-CLASP1 antibody (ab154087) at 1/1000 dilution + Hep G2 whole cell lysate at 30 µg

Predicted band size: 16 kDa

5% SDS PAGE

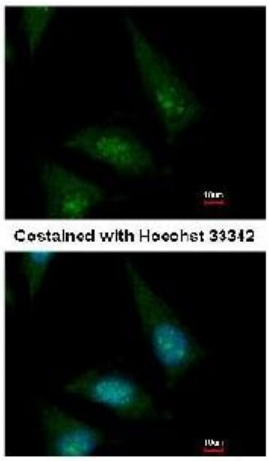


Western blot - Anti-CLASP1 antibody (ab154087)

Anti-CLASP1 antibody (ab154087) at 1/1000 dilution + Mouse brain whole cell lysate at 50 µg

Predicted band size: 16 kDa

5% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-CLASP1 antibody (ab154087)

Immunofluorescence analysis of methanol-fixed HeLa cells labeling CLASP1 with ab154087 at 1/500 dilution. The image in the lower panel is costained with Hoechst 33342.

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