

CLASP1 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP50795

Specification

CLASP1 Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Antigen Region WB, IHC <u>07Z460</u> Human, Mouse Rabbit Polyclonal 169,162,165,163 KDa 1190-1218

CLASP1 Antibody - Additional Information

Gene ID 23332

Other Names CLIP-associating protein 1, Cytoplasmic linker-associated protein 1, Multiple asters homolog 1, Protein Orbit homolog 1, hOrbit1, CLASP1, KIAA0622, MAST1

Dilution WB~~ 1:1000 IHC~~1:50~100

Format

Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions -20°C

CLASP1 Antibody - Protein Information

Name CLASP1

Synonyms KIAA0622, MAST1

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.



Cellular Location

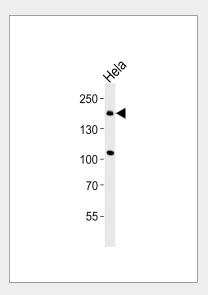
Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore Cytoplasm, cytoskeleton, spindle. Golgi apparatus, trans-Golgi network. Note=Localizes to microtubule plus ends. Localizes to centrosomes, kinetochores and the mitotic spindle 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

CLASP1 Antibody - Protocols

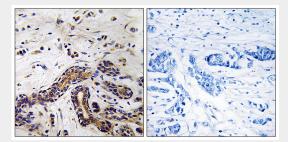
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

CLASP1 Antibody - Images



Western blot analysis of lysate from Hela cell line, using CLASP1 Antibody (AP50795). AP50795 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.





Immunohistochemistry analysis of paraffin-embedded human testis tissue, using CLASP1 antibody.

CLASP1 Antibody - Background

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CLASP1 Antibody - References

Maiato H., et al.Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases. Hillier L.W., et al.Nature 434:724-731(2005). Akhmanova A., et al.Cell 104:923-935(2001). Bechtel S., et al.BMC Genomics 8:399-399(2007). Ishikawa K., et al.DNA Res. 5:169-176(1998).