10320 Camino Santa Fe, Suite G
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CLASP1 Antibody (aa1171-1220)
Rabbit Polyclonal Antibody
Catalog # ALS16649

Specification

CLASP1 Antibody (aa1171-1220) - Product Information

Application	**IHC, WB**
Primary Accession	Q7Z460
Other Accession	23332
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**169451**

CLASP1 Antibody (aa1171-1220) - Additional Information

Gene ID 23332

Other Names
CLASP1, CLIP-associating protein 1, HOrbit1, Multiple asters homolog 1, KIAA0622, Multiple asters 1, Protein Orbit homolog 1

Target/Specificity
CLASP1 Antibody detects endogenous levels of total CLASP1 protein.

Reconstitution & Storage
PBS (without Mg2+, Ca2+), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol. Store at -20°C for up to one year.

Precautions
CLASP1 Antibody (aa1171-1220) is for research use only and not for use in diagnostic or therapeutic procedures.

CLASP1 Antibody (aa1171-1220) - 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

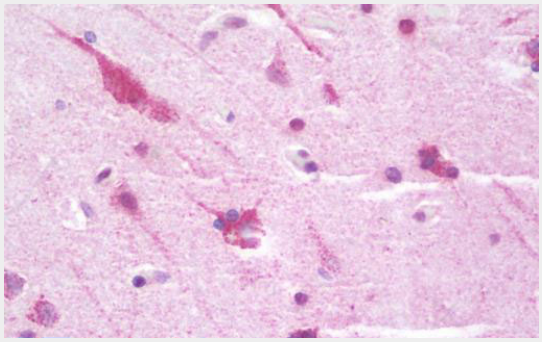
Volume
50 µl

CLASP1 Antibody (aa1171-1220) - Protocols

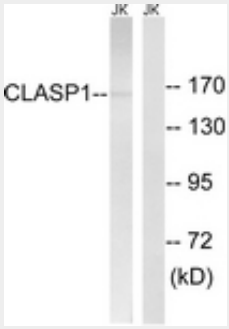
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CLASP1 Antibody (aa1171-1220) - Images



Anti-CLASP1 antibody IHC staining of human brain, cortex.



Western blot of extracts from Jurkat cells, using CLASP1 Antibody.

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CLASP1 Antibody (aa1171-1220) - Background

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CLASP1 Antibody (aa1171-1220) - 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).