

**CLASP1 Antibody (aa1171-1220)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16649****Specification**

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**CLASP1 Antibody (aa1171-1220) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC, WB                |
| Primary Accession | <a href="#">Q7Z460</a> |
| Other Accession   | <a href="#">23332</a>  |
| 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 Mg<sup>2+</sup>, Ca<sup>2+</sup>), 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

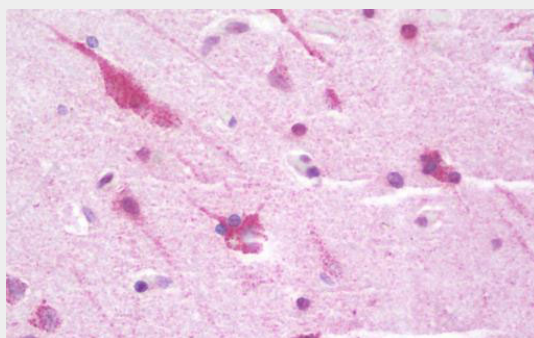
50 µl

### CLASP1 Antibody (aa1171-1220) - Protocols

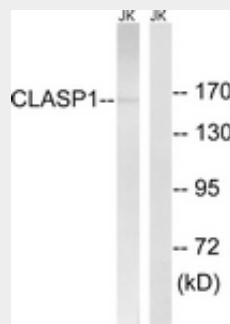
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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.

**CLASP1 Antibody (aa1171-1220) - Background**

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.

**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).