

# **CLASP1 Polyclonal Antibody**

Catalog # AP69124

### **Product Information**

ApplicationWB, IHC-PPrimary AccessionQ7Z460

**Reactivity** Human, Mouse

HostRabbitClonalityPolyclonalCalculated MW169451

#### **Additional Information**

**Gene ID** 23332

Other Names CLASP1; KIAA0622; MAST1; CLIP-associating protein 1; Cytoplasmic

linker-associated protein 1; Multiple asters homolog 1; Protein Orbit homolog

1; hOrbit1

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

#### **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

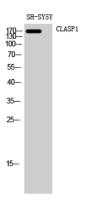
center, centrosome. Chromosome, centromere, kinetochore Cytoplasm,

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

# **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.

## **Images**



Western Blot analysis of SH-SY5Y cells using CLASP1 Polyclonal Antibody diluted at 1: 2000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.