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# Phospho-CLASP1(Y1269) Antibody Blocking peptide

**Synthetic peptide**
**Catalog # BP3636a**

## Specification

### Phospho-CLASP1(Y1269) Antibody Blocking peptide - Product Information

Primary Accession Q7Z460

### Phospho-CLASP1(Y1269) Antibody Blocking peptide - 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

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/products/AP3636a>AP3636a</a> was selected from the region of human Phospho-CLASP1-pY1269. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### Phospho-CLASP1(Y1269) Antibody Blocking peptide - 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

## Phospho-CLASP1(Y1269) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

## Phospho-CLASP1(Y1269) Antibody Blocking peptide - Images

## Phospho-CLASP1(Y1269) Antibody Blocking peptide - Background

CLASPs, such as CLASP1, are nonmotor microtubule-associated proteins that interact with CLIPs (e.g., CLIP170; MIM 179838). CLASP1 is involved in the regulation of microtubule dynamics at the kinetochore and throughout the spindle.

## Phospho-CLASP1(Y1269) Antibody Blocking peptide - References

Tsvetkov,A.S., Cell Motil. Cytoskeleton 64 (7), 519-530 (2007)Pereira,A.L., Mol. Biol. Cell 17 (10), 4526-4542 (2006)Mimori-Kiyosue,Y., Genes Cells 11 (8), 845-857 (2006)