

# CLASP2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7181b

## Product Information

---

<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">O75122</a>
<b>Other Accession</b>	<a href="#">NP_055912</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB9127
<b>Calculated MW</b>	141064
<b>Antigen Region</b>	946-975

## Additional Information

---

<b>Gene ID</b>	23122
<b>Other Names</b>	CLIP-associating protein 2, Cytoplasmic linker-associated protein 2, Protein Orbit homolog 2, hOrbit2, CLASP2, KIAA0627
<b>Target/Specificity</b>	This CLASP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 946-975 amino acids from the C-terminal region of human CLASP2.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	CLASP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	CLASP2
<b>Synonyms</b>	KIAA0627
<b>Function</b>	Microtubule plus-end tracking protein that promotes the stabilization of

dynamic microtubules (PubMed:[26003921](#)). 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 (PubMed:[16824950](#)). 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 (PubMed:[16866869](#), PubMed:[16914514](#)). Acts as a mediator of ERBB2- dependent stabilization of microtubules at the cell cortex.

#### Cellular Location

Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Golgi apparatus {ECO:0000250|UniProtKB:Q8BRT1}. Golgi apparatus, trans-Golgi network. Cell membrane. Cell projection, ruffle membrane. Cytoplasm, cell cortex. Note=Localizes to microtubule plus ends (PubMed:15631994). Localizes to centrosomes, kinetochores and the mitotic spindle from prometaphase. Subsequently localizes to the spindle midzone from anaphase and to the midbody from telophase (PubMed:16866869, PubMed:16914514). 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 (PubMed:16824950). Colocalizes with KANK1 at the cell cortex, likely recruited in cortical microtubule stabilization complexes (CMSC) at focal adhesions rims (PubMed:27410476). The MEMO1-RHOA-DIAPH1 signaling pathway controls localization of the phosphorylated form to the cell membrane

#### Tissue Location

Brain-specific.

## Background

---

Microtubule plus-end tracking protein that promotes the stabilization of dynamic microtubules. 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.

## References

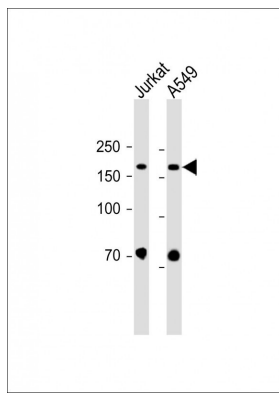
---

Pereira,A.L., Mol. Biol. Cell 17 (10), 4526-4542 (2006)  
Mimori-Kiyosue,Y., Genes Cells 11 (8), 845-857 (2006)  
Lansbergen,G., Dev. Cell 11 (1), 21-32 (2006)

## Images

---

All lanes: Anti-CLASP2 Antibody (C-term) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 165 KDa Blocking/Dilution buffer: 5% NFD/MTBST.



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