

# Product datasheet

info@arigobio.com

# ARG44641 anti-CLASP1 antibody

Package: 50 μg Store at: -20°C

#### **Summary**

Product Description Rat Monoclonal antibody recognizes CLASP1

Tested Reactivity Hu, Ms
Tested Application IP, WB
Host Rat

Clonality Monoclonal

Isotype IgG2a
Target Name CLASP1
Species Mouse

Conjugation Un-conjugated

Alternate Names CLASP1; Cytoplasmic Linker Associated Protein 1; MAST1; CLIP-Associating Protein 1; KIAA0622;

Multiple Asters Homolog 1; Protein Orbit Homolog 1; Multiple Asters 1; Cytoplasmic Linker-Associated

Protein 1; HOrbit1

## **Application Instructions**

Application table	Application	Dilution
	IP	10 μg/mL
	WB	1 μg/mL
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

## **Properties**

Form Liquid

Purification Protein A purification

Buffer PBS with 0.09% sodium azide

Preservative 0.09% sodium azide

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol CLASP1

Gene Full Name Cytoplasmic Linker Associated Protein 1

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 (Maiato et al., 2003 [PubMed 12837247]).[supplied by OMIM,

Mar 2008]

**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. [UniProt]

Calculated Mw 169 kDa

PTM Phosphoprotein. [UniProt]

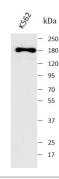
Cellular Localization Centromere, Chromosome, Cytoplasm, Cytoskeleton, Golgi apparatus, Kinetochore, Microtubule.

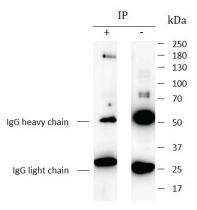
[UniProt]

#### **Images**

#### ARG44641 anti-CLASP1 antibody WB image

Western blot: K562 stained with ARG44641 anti-CLASP1 antibody at 1  $\mu$ g/mL dilution.





#### ARG44641 anti-CLASP1 antibody IP image

Immunoprecipitation: K562 lysate immunoprecipitated with 2.5  $\mu g$  of ARG44641 anti-CLASP1 antibody.