CLASP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLASP1, Polyclonal Antibody
Full Product Name	CLASP1, CT (CLIP-associating Protein 1, Cytoplasmic Linker-associated Protein 1, Multiple Asters Homolog 1, Protein Orbit Homolog 1, hOrbit1, KIAA0622, MAST1) (Biotin)
Product Gene Name	anti-CLASP1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human CLASP1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	169.451
OMIM	605852
3D Structure	ModBase 3D Structure for Q7Z460
Immunogen	Synthetic peptide selected from the C-terminal region of human CLASP1 (KLH).
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-CLASP1 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-CLASP1 antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-CLASP1 antibody	IHC: 1:10-1:50 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CLASP1 antibody	MBS6469155 is an antibody targeting CLASP1. Also known as CLASP1, CT (CLIP-associating Protein 1, Cytoplasmic Linker-associated Protein 1, Multiple Asters Homolog 1, Protein Orbit Homolog 1, hOrbit1, KIAA0622, MAST1) (Biotin). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CLASP1 antibody	1. Tsvetkov, A.S., Cell Motil. Cytoskeleton 64(7), 519-530 (2007). 2. Pereira, A.L., Mol. Biol. Cell 17(10), 4526-4542 (2006). 3. Mimori-Kiyosue, Y., Genes Cells 11(8), 845-857 (2006).
Other Notes	Small volumes of anti-CLASP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLASP1. It may not necessarily be applicable to this product.

NCBI GI #	31563537
NCBI GeneID	23332
NCBI Accession #	NP_056097
UniProt Primary Accession #	Q7Z460
UniProt Related Accession #	Q7Z460
GenBank Nucleotide #	NP_056097.1
NCBI Official Full Name	CLIP-associating protein 1 isoform 1
NCBI Official Synonym Full Names	cytoplasmic linker associated protein 1
NCBI Official Symbol	CLASP1
NCBI Official Synonym Symbols	MAST1
UniProt Protein Name	CLIP-associating protein 1
UniProt Synonym Protein Names	Cytoplasmic linker-associated protein 1; Multiple asters homolog 1; Protein Orbit homolog 1
Protein Family	CLIP-associating protein
UniProt Gene Name	CLASP1
UniProt Synonym Gene Names	KIAA0622; MAST1; hOrbit1
UniProt Entry Name	CLAP1_HUMAN
NCBI Protein Information	CLIP-associating protein 1
NCBI Summary for CLASP1	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]
UniProt Comments for CLASP1	CLASP1: 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. Belongs to the CLASP family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 2q14.2-q14.3 Cellular Component: kinetochore microtubule; kinetochore; Golgi apparatus; centrosome; membrane; cytoplasmic microtubule; spindle microtubule; cortical microtubule cytoskeleton; cell cortex; cytosol Molecular Function: kinetochore binding; microtubule plus-end binding; protein binding; microtubule binding Biological Process: axon guidance; microtubule organizing center organization and biogenesis; negative regulation of microtubule depolymerization; organelle organization and biogenesis; negative regulation of microtubule polymerization or depolymerization; establishment and/or maintenance of cell polarity; establishment of spindle orientation; microtubule cytoskeleton organization and biogenesis; microtubule nucleation; cell division; mitotic cell cycle; G2/M transition of mitotic cell cycle; microtubule bundle formation; exit from mitosis
Research Articles on CLASP1	**1.** Prickle1 localized to the membrane through its farnesyl moiety, and the membrane localization was necessary for Prickle1 to regulate migration, to bind to CLASPs and LL5beta, and to promote microtubule targeting of focal adhesions.

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