CLASP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLASP2, Polyclonal Antibody
Full Product Name	CLASP2, NT (CLIP-associating Protein 2, Cytoplasmic Linker-associated Protein 2, Protein Orbit Homolog 2, hOrbit2, KIAA0627) (AP)
Product Gene Name	anti-CLASP2 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 Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human CLASP2.
Preparation and Storage	May be stored at 4 degree C for short-term only. Do not freeze alkaline phosphatase conjugates which could result in a substantial loss of enzymatic activity. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	165,924 Da
OMIM	605853
3D Structure	ModBase 3D Structure for O75122
Immunogen	Synthetic peptide selected from the N-terminal region of human CLASP2 (KLH).
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-CLASP2 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-CLASP2 antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-CLASP2 antibody	IHC: 1:10-1:50 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CLASP2 antibody	MBS6469175 is an antibody targeting CLASP2. Also known as CLASP2, NT (CLIP-associating Protein 2, Cytoplasmic Linker-associated Protein 2, Protein Orbit Homolog 2, hOrbit2, KIAA0627) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CLASP2 antibody	1. Pereira, A.L., Mol. Biol. Cell 17(10), 4526-4542 (2006). 2. Mimori-Kiyosue, Y., Genes Cells 11(8), 845-857 (2006). 3. Lansbergen, G., Dev. Cell 11(1), 21-32 (2006).
Other Notes	Small volumes of anti-CLASP2 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 CLASP2. It may not necessarily be applicable to this product.

NCBI GI #	333440449
NCBI GeneID	23122
NCBI Accession #	NP_055912
UniProt Primary Accession #	O75122
UniProt Secondary Accession #	Q7L8F6; Q8N6R6; Q9BQT3; Q9BQT4; Q9H7A3; Q9NSZ2; B2RTR1; F5H604
UniProt Related Accession #	O75122
GenBank Nucleotide #	NM_015097.2
NCBI Official Full Name	CLIP-associating protein 2 isoform 1
NCBI Official Synonym Full Names	cytoplasmic linker associated protein 2
NCBI Official Symbol	CLASP2
UniProt Protein Name	CLIP-associating protein 2
UniProt Synonym Protein Names	Cytoplasmic linker-associated protein 2; Protein Orbit homolog 2; hOrbit2
Protein Family	CLIP-associating protein
UniProt Gene Name	CLASP2
UniProt Synonym Gene Names	KIAA0627; hOrbit2
UniProt Entry Name	CLAP2_HUMAN
NCBI Protein Information	CLIP-associating protein 2
UniProt Comments for CLASP2	CLASP2: 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. Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex. Belongs to the CLASP family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Cytoskeletal Chromosomal Location of Human Ortholog: 3p22.3 Cellular Component: kinetochore microtubule; Golgi apparatus; microtubule; membrane; cytoplasmic microtubule; cytoplasm; plasma membrane; microtubule organizing center; cell cortex; trans-Golgi network; cytosol Molecular Function: microtubule plus-end binding; protein binding; galactoside 2-alpha-L-fucosyltransferase activity Biological Process: mitosis; microtubule organizing center organization and biogenesis; axon guidance; regulation of microtubule-based process; cell division; negative regulation of microtubule depolymerization; establishment and/or maintenance of cell polarity; mitotic cell cycle; microtubule nucleation; regulation of microtubule polymerization or depolymerization
Research Articles on CLASP2	**1.** PAR3 and aPKC control the organization of the Golgi through CLASP2 phosphorylation.
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