



CLASP1 Monoclonal Antibody

Catalog No	YP-mAb-16714
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CLASP1
Immunogen	The antiserum was produced against synthesized peptide derived from human CLASP1. AA range:1171-1220
Specificity	CLASP1 Monoclonal Antibody detects endogenous levels of CLASP1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CLASP1;CLIP associating protein 1;hOrbit1;KIAA0622;MAST1;Multiple asters homolog 1;Protein Orbit homolog 1;CLIP-associating protein 1;Cytoplasmic linker-associated protein 1
Observed Band	169kD
Calculated Molecular Weight	169kD
Cell Pathway	Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Golgi apparatus, trans-Golgi network . 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.
Tissue Specificity	Brain,Endometrium carcinoma cell line,Epithelium,Eye,Platelet,Poole



Function

function: 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., PTM: Phosphorylated upon DNA damage, probably by ATM or ATR., similarity: Belongs to the CLASP family., similarity: Contains 7 HEAT repeats., subcellular location: Localizes to microtubule plus ends. Localizes to centrosomes, kinetochor

Background

cytoplasmic linker associated protein 1 (CLASP1) Homo sapiens 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],

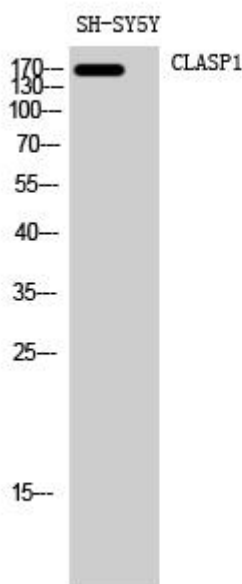
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using CLASP1 Monoclonal Antibody