CLAP2 Rabbit pAb

CatalogNo: YN0607

Key Features

Host Species
- Rabbit

Reactivity
- Human,Rat,Mouse,

Applications
- WB,ELISA

MW
- 142kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from part region of human protein
Specificity	CLAP2 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	CLASP2 KIAA0627

Protein Name CLIP-associating protein 2 (Cytoplasmic linker-associated protein 2) (Protein Orbit homolog 2) (hOrbit2)

Organism	Gene ID	UniProt ID
Human	23122;	O75122;
Mouse		Q8BRT1;
Rat		Q99JD4;

Cellular Localization Cytoplasm, cytoskeleton . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Chromosome, centromere, kinetochore . Cytoplasm, cytoskeleton, spindle . Golgi apparatus . Golgi apparatus, trans-Golgi network . Cell membrane . Cell projection, ruffle membrane . 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). The MEMO1-RHOA-DIAPH1 signaling pathway controls localization of the phosphorylated form to the cell membrane. .

Tissue specificity Brain-specific.

Function Alternative products:Additional isoforms exist,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 by GSK3B. Phosphorylation by GSK3B may negatively regulate binding to microtubule lattices in lamella. Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the CLASP family.,similarity:Contains 5 HEAT repeats.,subcellular location: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.,subunit:Interacts with CLIP2, ERC1, MAPRE1, MAPRE3, microtubules, PHLDB2 and RSN. The interaction with ERC1 may be mediated by PHLDB2.,tissue specificity:Brain-specific.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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