

CLAP2 Polyclonal Antibody

Cat No: HR1AP10664

For research use only

Overview

Product Name	CLAP2 Polyclonal Antibody
Source	Rabbit
Applications	WB,ELISA
Species Reactivity	Human
Recommended Dilutions	
Immunogen	
Species	Rabbit
Storage	-20°C/1 year
Isotype	
Clonality	
Concentration	1 mg/ml
Observed band	142kDa
GeneID?Human?	CLASP2 KIAA0627
Human Swiss-Prot No.	
Cellular localization	
Alternative Names	
Background	<p>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.,</p>