

ARG42040
anti-CLASP2 antibody [KT68]Package: 50 µl
Store at: -20°C

Summary

Product Description	Rat Monoclonal antibody [KT68] recognizes CLASP2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rat
Clonality	Monoclonal
Clone	KT68
Isotype	IgG2b
Target Name	CLASP2
Species	Mouse
Immunogen	GST fusion protein around the N-terminus of Mouse CLASP2.
Conjugation	Un-conjugated
Alternate Names	Cytoplasmic linker-associated protein 2; Protein Orbit homolog 2; hOrbit2; CLIP-associating protein 2

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200
	WB	1:1000
Application Note	WB: Antibody is suggested to be diluted in 5% skimmed milk/Tris buffer with 0.04% Tween20 and incubated for 1 hour at room temperature. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

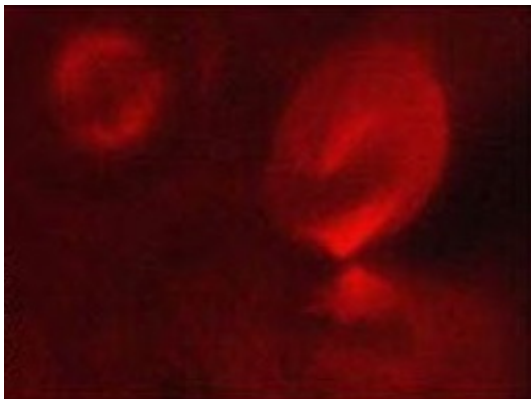
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.05% Sodium azide.
Preservative	0.05% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CLASP2
Gene Full Name	cytoplasmic linker associated protein 2
Function	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. [UniProt]
Calculated Mw	141 kDa
PTM	Phosphorylated by GSK3B. Phosphorylation reduces MAPRE1 binding (PubMed:26003921). Phosphorylation by GSK3B may negatively regulate binding to microtubule lattices in lamella. [UniProt]
Cellular Localization	Cytoplasm, cytoskeleton, spindle, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Golgi apparatus, trans-Golgi network. Cell membrane. Cell projection, ruffle membrane. [UniProt]

Images



ARG42040 anti-CLASP2 antibody [KT68] ICC/IF image

Immunofluorescence: Paraformaldehyde-fixed and NP40-permeabilized A431 cells stained with ARG42040 anti-CLASP2 antibody [KT68].



ARG42040 anti-CLASP2 antibody [KT68] WB image

Western blot: Mouse brain and PC-12 cell lysates stained with ARG42040 anti-CLASP2 antibody [KT68] at 1:500 dilution.