

Rat CLASP2 Monoclonal Antibody | anti-CLASP2 antibody

CLASP2 (N-terminus) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71599	Rat	Human, Rat, Mouse	Immunocytochemistry, ELISA, Western Blot

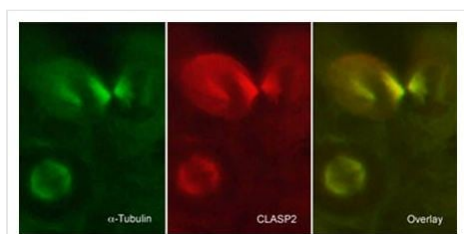
PRODUCT SYNONYMS

CLASP2; Monoclonal Antibody; CLASP2 (N-terminus) Antibody; CLASP2 (N-terminus); CLASP2 N1; anti-CLASP2 antibody

PRODUCT SPECIFICATIONS

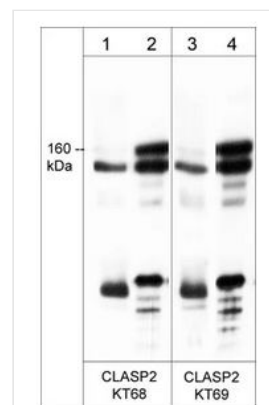
Host	Rat
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	KT68
Specificity	The antibody detects a 160kDa* doublet corresponding to the molecular mass of CLASP2 on SDS-PAGE immunoblots of human HeLa, mouse brain, and rat PC12 cells. The antibody also detects CLASP2 by immunocytochemistry in HeLa and A431 cells.
Purity/Purification	Protein G chromatography
Form/Format	Rat monoclonal antibody purified with protein G chromatography is supplied in 100ul phosphate-buffered saline and 0.05% sodium azide.
Applicable Applications for anti-CLASP2 antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone KT68 was generated from a GST fusion protein containing the N-terminus of mouse CLASP2. This sequence is highly conserved in human and rat CLASP2, and has low homology to CLASP1.
Preparation and Storage	Aliquot and store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of CLASP2 in paraformaldehyde-fixed and NP40-permeabilized A431 cells. The cells were dual labeled with mouse monoclonal anti-alpha-Tubulin (TM4111) (left) and rat monoclonal anti-CLASP2 (CM5051) (middle). The antibodies were detected using either goat anti-mouse:DyLight 488 (MS3011) or goat anti-Rat:DyLight 594 (RS3111).



WB (Western Blot)

Western blot of CLASP2 in mouse brain (lanes 1 & 3) and rat PC12 cells (lanes 2 & 4). The blots were probed with rat monoclonals CM5051 anti-CLASP2 (clone KT68) (lanes 1 & 2) and CM5071 anti-CLASP2 (clone KT69) (lanes 3 & 4). The antibodies were used at a dilution of 1:500.

ADDITIONAL INFORMATION

Related Product Information for anti-CLASP2 antibody	The microtubule (MT) plus-end is a crucial site for the regulation of MT dynamics and interactions by several groups of plus-end tracking proteins (+TIPs). These +TIPs form comet-like accumulations at the plus ends of MTs to regulate MT dynamics and interactions with organelles and macromolecular complexes. The +TIPs include diverse groups of proteins, such as motor and nonmotor proteins, MT polymerases and depolymerases as well as various regulatory and adaptor proteins. The CLIP-associated protein (CLASP) family includes CLASP1 and CLASP2 proteins, which are expressed as long (alpha) and short (beta) isoforms. These +TIPs contain an N-terminal TOG domain, multiple TOG-like domains, and a basic and serine-rich motif (SxIP). The TOG domain facilitates interaction with tubulin dimers, while the SxIP motif promotes interaction with EB1 and MTs. A C-terminal domain is involved in interaction with CLIPs, as well as several other proteins. CLASPs are MT stabilizing factors that localize to mitotic spindles, kinetochores, and the midbody. CLASPs are important for cell division, and may regulate cell migration and neuronal growth cone motility.
References	Al-Bassam, J. & Chang, F. (2011) Trends Cell Biol. 21(10):604. Gouveia, S.M. & Akhmanova, A. (2010) Int Rev Cell Mol Biol. 285:1-74.

NCBI AND UNIPROT INFORMATION

NCBI GI #	557636661
NCBI GeneID	76499
NCBI Accession #	NP_001273528.1
NCBI GenBank Nucleotide #	NM_001286599.1
UniProt Accession #	Q8BRT1; Q8CHE3; Q99JI3; Q9DB80
Molecular Weight	18,021 Da
NCBI Official Full Name	CLIP-associating protein 2 isoform d
NCBI Official Synonym Full Names	CLIP associating protein 2
NCBI Official Symbol	Clasp2
NCBI Official Synonym Symbols	C77448; mKIAA0627; CLASP2beta; 1500004F14Rik; 8030404L10Rik
NCBI Protein Information	CLIP-associating protein 2
UniProt Protein Name	CLIP-associating protein 2
UniProt Gene Name	Clasp2
UniProt Synonym Gene Names	Kiaa0627
UniProt Entry Name	CLAP2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.