

KD-Validated Anti-Kinesin Family Member 2C Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1867

Product Information

Application	WB, FC, ICC
Primary Accession	Q99661
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB4930
Calculated MW	81313
Gene Name	KIF2C
Aliases	KIF2C; Kinesin Family Member 2C; MCAK; CT139; KNSL6; Mitotic Centromere-Associated Kinesin; Kinesin-Like Protein KIF2C; Kinesin-Like Protein 6; Kinesin-Like 6 (Mitotic Centromere-Associated Kinesin); Testis Tissue Sperm-Binding Protein Li 68n
Immunogen	A synthesized peptide derived from human MCAK

Additional Information

Gene ID	11004
Other Names	Kinesin-like protein KIF2C, Kinesin-like protein 6, Mitotic centromere-associated kinesin, MCAK, KIF2C, KNSL6

Protein Information

Name	KIF2C
Synonyms	KNSL6
Function	In complex with KIF18B, constitutes the major microtubule plus-end depolymerizing activity in mitotic cells (PubMed: 21820309). Regulates the turnover of microtubules at the kinetochore and functions in chromosome segregation during mitosis (PubMed: 19060894). Plays a role in chromosome congression and is required for the lateral to end-on conversion of the chromosome-microtubule attachment (PubMed: 23891108).
Cellular Location	Cytoplasm, cytoskeleton. Nucleus {ECO:0000250 UniProtKB:P70096} Chromosome, centromere. Chromosome, centromere, kinetochore. Note=Associates with the microtubule network at the growing distal tip (the plus-end) of microtubules, probably through interaction with MTUS2/TIP150 and MAPRE1 (By similarity). Association with microtubule plus ends is also mediated by interaction with KIF18B. Centromeric localization requires the

presence of BUB1 and SGO2. {ECO:0000250|UniProtKB:P70096, ECO:0000269|PubMed:17485487, ECO:0000269|PubMed:21820309}

Tissue Location

Expressed at high levels in thymus and testis, at low levels in small intestine, the mucosal lining of colon, and placenta, and at very low levels in spleen and ovary; expression is not detected in prostate, peripheral blood Leukocytes, heart, brain, lung, liver, skeletal muscle, kidney or pancreas. Isoform 2 is testis- specific.

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