Anti-KIF2C antibody

Description	Rabbit polyclonal to KIF2C.

Model	STJ93836
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IF
Immunogen	Synthesized peptide derived from human KIF2C around the non-phosphorylation site of S95.
Immunogen Region	30-110 aa
Gene ID	11004
Gene Symbol	KIF2C
Dilution range	IF 1:200-1:1000ELISA 1:5000
Specificity	KIF2C Polyclonal Antibody detects endogenous levels of KIF2C protein.
Tissue Specificity	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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Kinesin-like protein KIF2C Kinesin-like protein 6 Mitotic centromere-

	associated kinesin MCAK
Molecular Weight	80 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:6393OMIM:604538
Alternative Names	Kinesin-like protein KIF2C Kinesin-like protein 6 Mitotic centromere-associated kinesin MCAK
Function	In complex with KIF18B, constitutes the major microtubule plus-end depolymerizing activity in mitotic cells . Regulates the turnover of microtubules at the kinetochore and functions in chromosome segregation during mitosis . Plays a role in chromosome congression and is required for the lateral to end-on conversion of the chromosome-microtubule attachment .
Sequence and Domain Family	The microtubule tip localization signal (MtLS) motif; mediates interaction with MAPRE1 and targeting to the growing microtubule plus ends.
Cellular Localization	Cytoplasm, cytoskeleton Nucleus Chromosome, centromere Chromosome, centromere, kinetochore. Associates with the microtubule network at the growing distal tip (the plus-end) of microtubules, probably through interaction with MTUS2/TIP150 and MAPRE1 . Association with microtubule plus ends is also mediated by interaction with KIF18B. Centromeric localization requires the presence of BUB1 and SGO2.
Post-translational Modifications	Phosphorylation by AURKB, regulates association with centromeres and kinetochores and the microtubule depolymerization activity. Ubiquitinated.