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KIF2C Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14043a

Specification

KIF2C Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q99661
Other Accession	Q95LP1, NP_006836.2
Reactivity	**Human**
Predicted	**Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**81313**
Antigen Region	**180-208**

KIF2C Antibody (N-term) - Additional Information

Gene ID 11004

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

Target/Specificity
This KIF2C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 180-208 amino acids from the N-terminal region of human KIF2C.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
KIF2C Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

KIF2C Antibody (N-term) - 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}

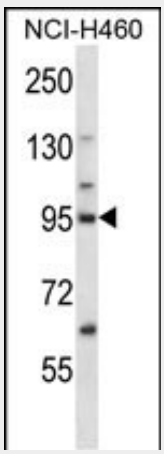
Tissue Location
Expressed at high levels in thymus and testis, at low levels in small intestine, the mucosal lining of colon, and placenta, and at very low levels in spleen and ovary; expression is not detected in prostate, peripheral blood Leukocytes, heart, brain, lung, liver, skeletal muscle, kidney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

KIF2C Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KIF2C Antibody (N-term) - Images



KIF2C Antibody (N-term) (Cat. #AP14043a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the KIF2C antibody detected the KIF2C protein (arrow).

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KIF2C Antibody (N-term) - Background

The protein encoded by this gene is a member of kinesin-like protein family. Proteins of this family are microtubule-dependent molecular motors that transport organelles within cells and move chromosomes during cell division. This protein is important for anaphase chromosome segregation and may be required to coordinate the onset of sister centromere separation.

KIF2C Antibody (N-term) - References

Tanno, Y., et al. Genes Dev. 24(19):2169-2179(2010)
Gnjatic, S., et al. Int. J. Cancer 127(2):381-393(2010)
Sanhaji, M., et al. Mol. Cell. Biol. 30(11):2594-2607(2010)
Olson, J.E., et al. Breast Cancer Res. Treat. (2010) In press :
Kollu, S., et al. Curr. Biol. 19(24):2108-2113(2009)