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

Rabbit monoclonal antibody
Catalog # AGI1867

Specification

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

Application	**WB, FC, ICC**
Primary Accession	Q99661
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 81 kDa, observed, 75 kDa KDa**
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**

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

Gene ID **11004**

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

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

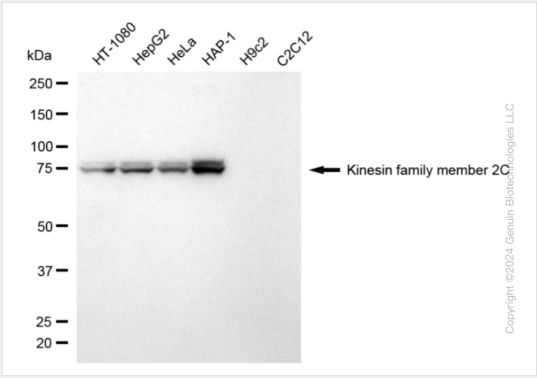
Tissue Location
Expressed at high levels in thymus and testis, at low levels in small intestine, the mucosal lining of colon, and placenta, and at very low levels in spleen and ovary; expression is not detected in prostate, peripheral blood Leukocytes, heart, brain, lung, liver, skeletal muscle, kidney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

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

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



Western blotting analysis using anti-kinesin family member 2C antibody (Cat#AGI1867). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-kinesin family member 2C antibody (Cat#AGI1867, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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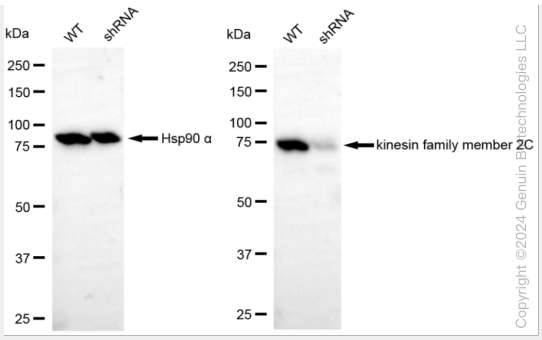
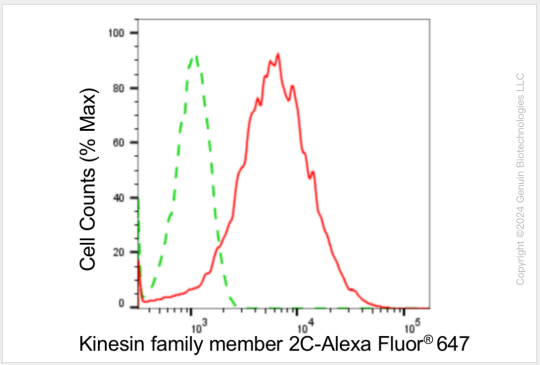
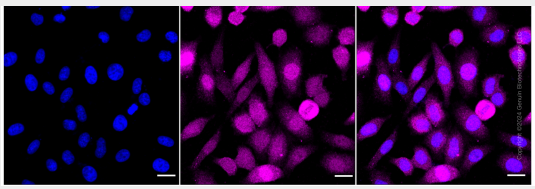


Western blotting analysis using anti-kinesin family member 2C antibody (Cat#AGI1867). Kinesin family member 2C expression in wild type (WT) and kinesin family member 2C (KIF2C) shRNA knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-kinesin family member 2C antibody (Cat#AGI1867, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of kinesin family member 2C expression in HepG2 cells using anti-kinesin family member 2C antibody (Cat#AGI1867, 1:2,000). Green, isotype control; red, kinesin family member 2C.



Immunocytochemical staining of HepG2 cells with anti-Kinesin family member 2C antibody (Cat#AGI1867, 1:1,000). Nuclei were stained blue with DAPI; Kinesin family member 2C was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.