

ARG59746 anti-KIF2C / MCAK antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes KIF2C / MCAK
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	KIF2C / MCAK
Species	Human
Immunogen	Recombinant protein corresponding to G531-Q725 of Human MCAK.
Conjugation	Un-conjugated
Alternate Names	Mitotic centromere-associated kinesin; MCAK; Kinesin-like protein KIF2C; KNSL6; Kinesin-like protein 6; CT139

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 1 µg/ml
Application Note	IHC-P: Antigen Retrieval: By heat mediation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

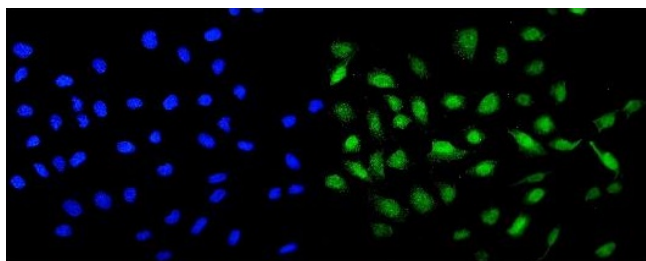
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

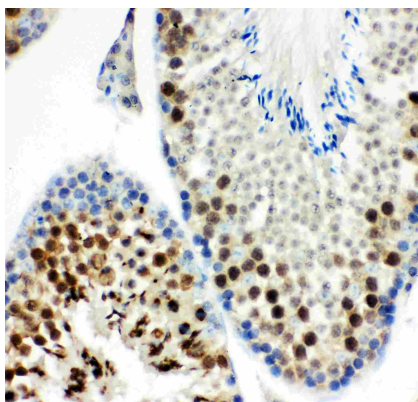
Gene Symbol	KIF2C
Gene Full Name	kinesin family member 2C
Background	This gene encodes a kinesin-like protein that functions as a microtubule-dependent molecular motor. The encoded protein can depolymerize microtubules at the plus end, thereby promoting mitotic chromosome segregation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
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. [UniProt]
Calculated Mw	81 kDa
PTM	Phosphorylation by AURKB, regulates association with centromeres and kinetochores and the microtubule depolymerization activity. Ubiquitinated. [UniProt]
Cellular Localization	Cytoplasm, cytoskeleton. Nucleus. 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. [UniProt]

Images



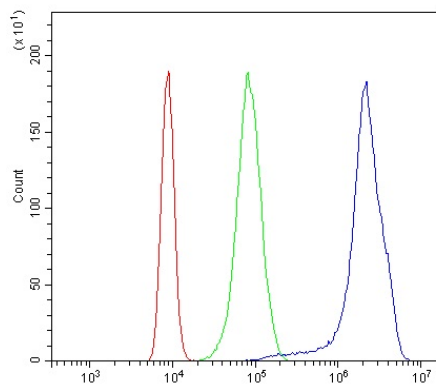
ARG59746 anti-KIF2C / MCAK antibody ICC/IF image

Immunofluorescence: U2OS cells were blocked with 10% goat serum and then stained with ARG59746 anti-KIF2C / MCAK antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



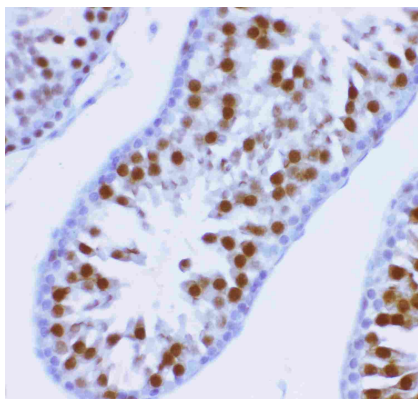
ARG59746 anti-KIF2C / MCAK antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse testis stained with ARG59746 anti-KIF2C / MCAK antibody.



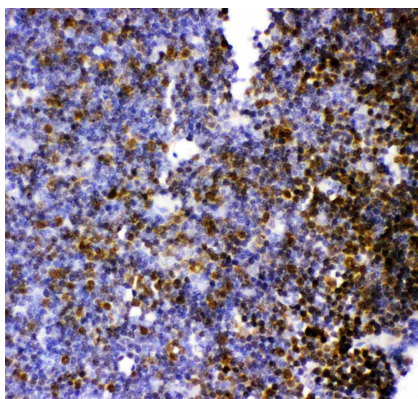
ARG59746 anti-KIF2C / MCAK antibody FACS image

Flow Cytometry: K562 cells were blocked with 10% normal goat serum and then stained with ARG59746 anti-KIF2C / MCAK antibody (blue) at $1 \mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG ($1 \mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG59746 anti-KIF2C / MCAK antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis stained with ARG59746 anti-KIF2C / MCAK antibody.



ARG59746 anti-KIF2C / MCAK antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat thymus stained with ARG59746 anti-KIF2C / MCAK antibody.