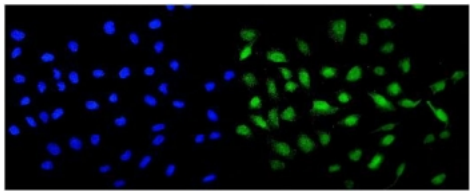
MCAK Antibody (R31643)

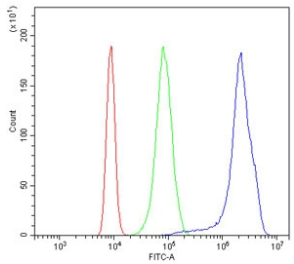
Catalog No.	Formulation	Size
R31643	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

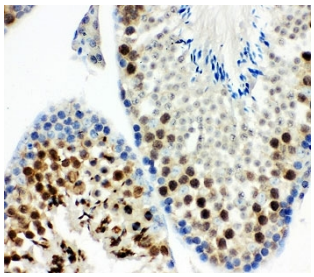
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	11004
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This MCAK antibody is available for research use only.



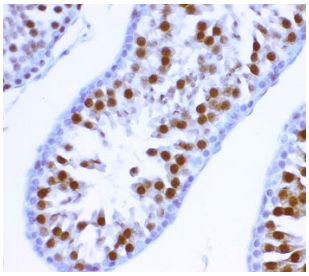
Immunofluorescent staining of FFPE human U-2 OS cells with MCAK antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



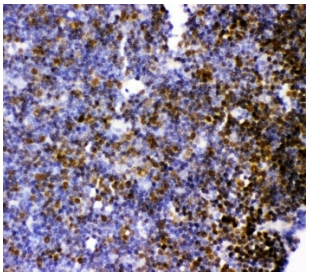
Flow cytometry testing of human K562 cells with MCAK antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MCAK antibody.



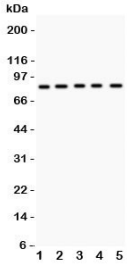
IHC-P: MCAK antibody testing of mouse testis tissue



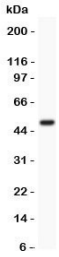
IHC-P: MCAK antibody testing of rat testis tissue



IHC-P: MCAK antibody testing of rat thymus tissue



Western blot testing of MCAK antibody and Lane 1: mouse testis; 2: human HeLa; 3: (h) MM231; 4: (h) MM453; 5: (h) SKOV lysate. Predicted molecular weight 76-81 kDa.



Western blot testing of MCAK antibody and recombinant human protein (0.5ng)

Description

Kinesin-like protein, also called Mitotic centromere associated kinesin (MCAK), is a protein that in humans is encoded by the KIF2C gene. It is mapped to 1p34.1. The protein encoded by this gene is a member of kinesin-like protein family. Most proteins of this family are microtubule-dependent molecular motors that transport organelles within cells and move chromosomes during cell division. This protein acts to regulate microtubule dynamics in cells and is important for anaphase chromosome segregation and may be required to coordinate the onset of sister centromere separation. MCAK uses microtubule depolymerizing activity to correct improper microtubule attachments at kinetochores.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the MCAK antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 531-725) was used as the immunogen for this MCAK antibody.

Storage

After reconstitution, the MCAK antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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