



Rabbit Anti-phospho-MCAK (Ser95) antibody

SL18714R

Product Name:	phospho-MCAK (Ser95)
Chinese Name:	磷酸化有丝分裂着丝粒相关驱动蛋白抗体
Alias:	MCAK (phospho S95); p-MCAK (phospho S95); 4930402F02Rik; ESTM5; KIF 2C; kif2c; KIF2C_HUMAN; Kinesin Family Member 2C; Kinesin family member 2C; kinesin like 6 (mitotic centromere associated kinesin); Kinesin like 6; Kinesin like protein 6; Kinesin like protein KIF2C; Kinesin-like protein 6; Kinesin-like protein KIF2C; KNS L6; KNSL 6; KNSL6; MCAK; MGC11883; Mitotic centromere associated kinesin; Mitotic centromere-associated kinesin; OTTHUMP00000010066; X83316
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	81kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human MCAK around the phosphorylation site of Ser95:RR(p-S)VN
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

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:

Promotes ATP-dependent removal of tubulin dimers from microtubules. Regulates the turnover of microtubules at the kinetochore and functions in chromosome segregation during mitosis.

Subcellular Location:

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 (By similarity). Centromeric localization requires the presence of BUB1 and SGOL2.

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.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR. Phosphorylation by STK12, regulates association with centromeres and kinetochores and the microtubule depolymerization activity.

Similarity:

Belongs to the kinesin-like protein family.
MCAK/KIF2 subfamily.
Contains 1 kinesin-motor domain.

SWISS:

Q99661

Gene ID:

11004

Database links:

[Entrez Gene: 11004](#) Human

[Entrez Gene: 73804](#) Mouse

[Omim: 604538](#) Human

Product Detail:

[SwissProt: Q99661](#) Human

[SwissProt: Q922S8](#) Mouse

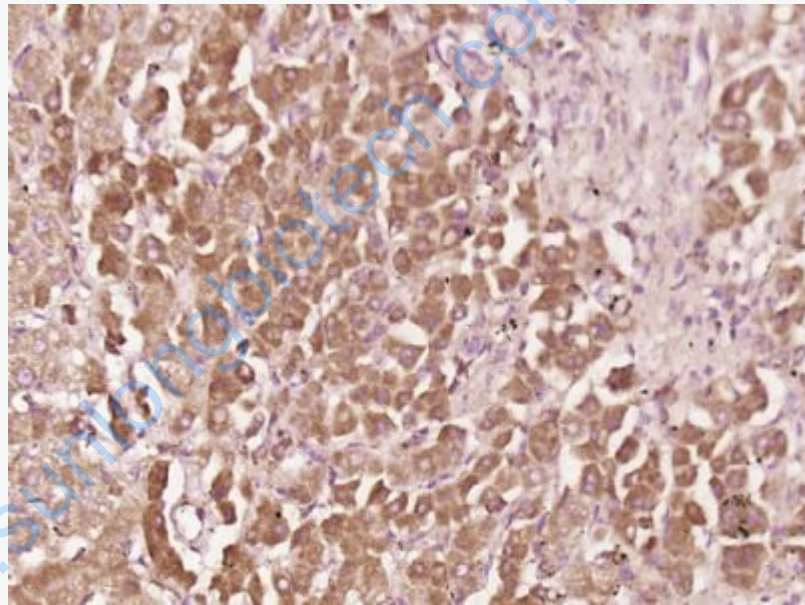
[Unigene: 720061](#) Human

[Unigene: 247651](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Paraformaldehyde-fixed, paraffin embedded (Human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-MCAK (Ser95)) Polyclonal Antibody, Unconjugated (SL18714R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.