

Recombinant Human MCAK protein ab132006

1 Image

Description

Product name	Recombinant Human MCAK protein
Expression system	Wheat germ
Accession	<u>Q99661</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MAMDSSLQAR LFPGLAIKIQ RSNGLIHSAN VRTVNLEKSC VSVEWAEAGGA TKGKEIDFDD VAAINPELLQ LLPLHPKDNL PLQENVTIQK QKRRSVNSKI PAPKESLRSR STRMSTVSEL RITAEQENDME VELPAAANSR KQFSVPPAPT RPSCPAVAEI PLRMVSEEME EQVHSIRGSS SANPVNSVRR KSCLVKEVEK MKNKREEKKA QNSEMRMKRA QEYDSSFPNW EFARMIKEFR ATLECHPLTM TDPIEEHRIC VCVRKRPLNK QELAKKEIDV ISIPSKCLLL VHEPKLKVDL TKYLENQAFD FDFAFDETAS NEVVYRFTAR PLVQTIFEGG KATCFAYGQT GSGKTHMGG DLSGKAQNAS KGIYAMASRD VFLLKNQPCY RKLGLEVYVT FFEIYNGKLF DLLNKKAKLR VLEDGKQQVQ VVGLQEHLVN SADDVIK MID MGSACRTSGQ TFANSNSSRS HACFQIILRA KGRMHGKFSL VDLAGNERGA DTSSADRQTR MEGAEINKSL LALKECIRAL GQNKAHTPFR ESKLTQVLRD SFIGENSRTC MIATISPGIS SCEYTLNTR YADRVKELSP HSGPSGEQLI QMETEEMEAC SNGALIPGNL SKEEEEELSSQ MSSFNEMTQ IRELEEKAME ELKEIIQQGP DWLELSEMTE QPDYDLETFV NKAESALAAQ AKHFSALRDV IKALRLAMQL EEQASRQISS KKR PQ</p>
Predicted molecular weight	108 kDa including tags
Amino acids	1 to 725
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab132006** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications ELISA
Western blot
SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
pH: 8.00
Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

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.

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.

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

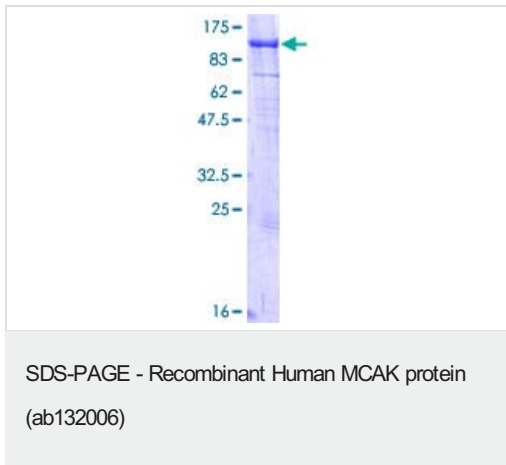
Developmental stage Isoform 2 is expressed in fetal testis.

Domain The microtubule tip localization signal (MtLS) motif; mediates interaction with MAPRE1 and targeting to the growing microtubule plus ends.

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.

Cellular localization 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.

Images



12.5% SDS-PAGE using ab132006 stained with Coomassie Blue.

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