SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-KIF20B/Cy5.5 Conjugated antibody

SL17046R-Cy5.5

Product Name	Anti-KIF20B/Cy5.5
Chinese Name	Cy5.5 标记的驱动蛋白家族成员 20B 抗体
Alias	Cancer/testis antigen 90; CT90; KI20B_HUMAN; KIF20B; Kinesin-like protein KIF20B; Kinesin-related motor interacting with PIN1; KRMP1; M-phase phosphoprotein 1; MPHOSPH1; MPP 1; Mpp1.
Research Area	Cell biology Signal transduction
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Dog,Pig,Cow,Horse,Sheep)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	210kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human KIF20B
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** The Kinesins constitute a large family of microtubule-dependent motor proteins which are responsible for the distribution of numerous organelles, vesicles and macromolecular complexes throughout the cell. Individual Kinesin members play crucial roles in cell division, intracellular transport and

membrane trafficking events, including endocytosis and transcytosis. MPP1 (M-phase phosphoprotein 1), also known as KIF20B (kinesin family member 20B), MPHOSPH1 or KRMP1, is a 1,820 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one kinesin-motor domain. Expressed in kidney, brain, testis and ovary, MPP1 functions as a plus-end directed motor enzyme that interacts with Pin1 and is required for the completion of cytokinesis. MPP1, which exists as multiple alternatively spliced isoforms termed 1-5, is subject to post-translational phosphorylation, probably by ATM or ATR.

Function:
Plus-end-directed motor enzyme that is required for completion of cytokinesis.

Subcellular Location:
Cytoplasm. Nucleus. Cytoplasm > cytoskeleton > spindle. Localizes mainly in the nucleus during interphase although it is also detected in the cytoplasm without clear association with microtubules. A 2-3 fold expression increase is seen as cells progress from G1 to G2/M phase. During prophase and metaphase it is found throughout the cytoplasm and at anaphase accumulates at the midplan of the cell and forms a distinct band extending across the spindle midzone. At anaphase it is concentrated in the mid-body.

Tissue Specificity:
Brain, ovary, kidney and testis.

Post-translational modifications:
Phosphorylated upon DNA damage, probably by ATM or ATR.

Similarity:
Belongs to the kinesin-like protein family.
Contains 1 kinesin-motor domain.

Database links:

Entrez Gene: 9585 Human

Omim: 605498 Human

SwissProt: Q96Q89 Human

Unigene: 240 Human

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