



Rabbit Anti-KIF20B antibody

SL17046R

Product Name:	KIF20B
Chinese Name:	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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
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:	210kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human KIF20B:1651-1750/1820
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
Product Detail:	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.

SWISS:

Q96Q89

Gene ID:

9585

Database links:

[Entrez Gene: 9585](#) Human

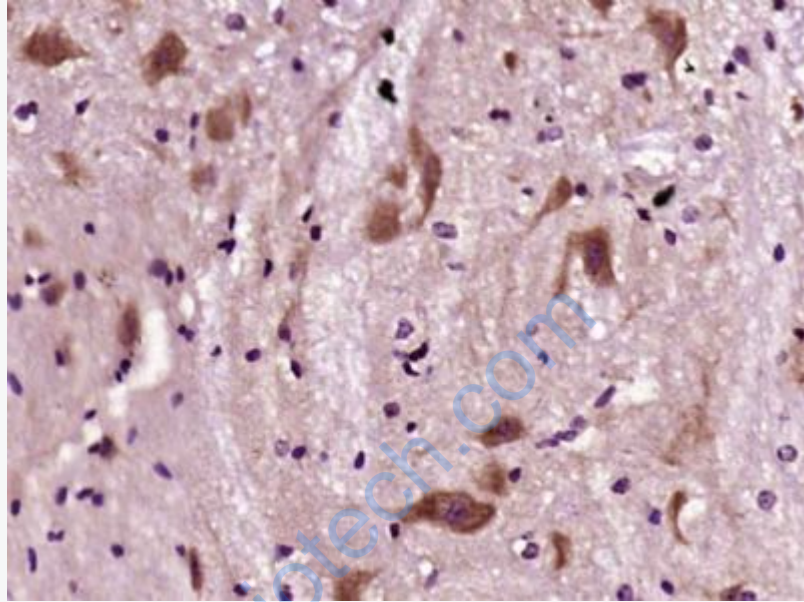
[Omic: 605498](#) Human

[SwissProt: Q96Q89](#) Human

[Unigene: 240](#) Human

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 (Mouse brain); 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 (KIF20B) Polyclonal Antibody, Unconjugated (SL17046R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.