SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-KIF18B antibody

Catalog Number: SL22415R

FOR RESEARCH USE ONLY

[DATASHEET]

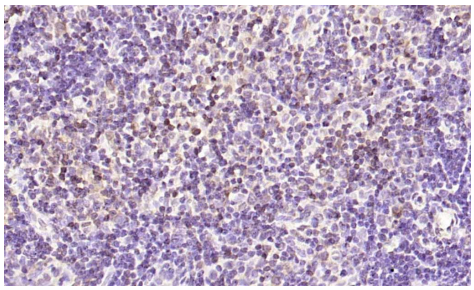
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	KIF18B
Immunogen:	KLH conjugated synthetic peptide derived from human KIF18B : 121-220/864
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Cow,Horse,Sheep)
Predicted MW.:	94kDa
Subcellular Location:	The nucleus cytoplasmic
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. KIF18B (kinesin family member 18B) is an 864 amino acid nuclear and cytoplasmic protein that belongs to the kinesin-like protein family. Containing one kinesin-motor domain, KIF18B is dominantly expressed in amygdala. During mitosis, KIF18B is suggested to be closely associated with astral microtubules emanating from the spindle pole during prometaphase and metaphase. KIF18B may play an important role in regulating cell division. KIF18B exists as four alternatively spliced isoforms and is encoded by a gene located on human chromosome 17q21.31.

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

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	Function: May play an important role in regulating cell division. **Subunit:** Interacts with MAPRE1; this interaction is required for efficient accumulation at microtubule plus ends. Interacts with KIF2C at microtubule tips; this interaction increases the affinity of both partners for microtubule plus ends and is required for robust microtubule depolymerization. KIF2C phosphorylation by AURKA or AURKB strongly reduces KIF18B-binding. **Subcellular Location:** Cytoplasmic, Nuclear and Plasma membrane **Tissue Specificity:** Shows a prominent expression in the amygdala. **Similarity:** Belongs to the kinesin-like protein family. Contains 1 kinesin-motor domain. **Database links:** **Entrez Gene:** 146909 Human Omim: 614570 Human **SwissProt:** Q86Y91 Human

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (rat lymphoid); 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 (KIF18B) Polyclonal Antibody, Unconjugated (SL22415R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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