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KIF18B Rabbit pAb

Catalog # AP98102

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q86Y91
Other Accession	Q86Y91
Reactivity	Rat
Predicted	Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	93011
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KIF18B
Epitope Specificity	121-220/864
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the kinesin-like protein family. Contains 1 kinesin-motor domain.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	146909
Other Names	KI18B_HUMAN; KIF18B; kinesin family member 18B
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	KIF18B
Function	In complex with KIF2C, constitutes the major microtubule plus-end depolymerizing activity in mitotic cells. Its major role may be to transport KIF2C and/or MAPRE1 along microtubules.
Cellular Location	Nucleus. Cytoplasm. Cytoplasm, cytoskeleton. Note=Present predominantly in the nucleus and to a lesser extent in the cytoplasm of interphase cells. During mitosis, found to be closely associated with astral microtubule plus ends emanating from the spindle pole during prometaphase and metaphase
Tissue Location	Shows a prominent expression in the amygdala.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.