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MKLP1 Rabbit pAb

Catalog # AP98341

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q02241
Other Accession	Q02241
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110059
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MKLP1
Epitope Specificity	221-310/960
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	Heterotetramer of two molecules each of RACGAP1 and KIF23. Found in the centralspindlin complex composed of RACGAP1 and KIF23. Interacts with RACGAP1; the interaction is direct. Interacts with ECT2 and PRC1. Interacts with ANXA11 during cytokinesis. Interacts with BIRC6/bruce and USP8/UBPY.
Post-translational modifications	Ubiquitinated. Deubiquitinated by USP8/UBPY.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a member of kinesin-like protein family. This family includes microtubule-dependent molecular motors that transport organelles within cells and move chromosomes during cell division. This protein has been shown to cross-bridge antiparallel microtubules and drive microtubule movement in vitro. Alternate splicing of this gene results in two transcript variants encoding two different isoforms.

Additional Information

Gene ID	9493
Other Names	CDA3; CDAIII; CDAN3; CDAN3A; CHO1; KNSL5; MKLP-1; MKLP1; 3110001D19Rik; KIF23_HUMAN; KIF23; Kinesin-like protein 5; Mitotic kinesin-like protein 1; kinesin family member 23; kinesin-like 5 (mitotic kinesin-like protein 1)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	KIF23
Synonyms	KNSL5, MKLP1
Function	Component of the centralspindlin complex that serves as a microtubule-dependent and Rho-mediated signaling required for the myosin contractile ring formation during the cell cycle cytokinesis. Essential for cytokinesis in Rho-mediated signaling. Required for the localization of ECT2 to the central spindle. Plus-end-directed motor enzyme that moves antiparallel microtubules in vitro.
Cellular Location	Nucleus. Cytoplasm, cytoskeleton, spindle. Midbody, Midbody ring. Midbody. Note=Localizes to the interzone of mitotic spindles. Detected at the midbody during later stages of mitotic cytokinesis
Tissue Location	Widely expressed..

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