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KIFC1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58757

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9BW19
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73748
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KIFC1
Epitope Specificity	401-500/673
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm; cytoskeleton; centrosome. Cytoplasm; cytoskeleton; spindle. Early endosome. Associated with nucleus during interphase, centrosomes in early and spindle in later mitosis.
SIMILARITY	Belongs to the kinesin-like protein family. NCD subfamily. Contains 1 kinesin-motor domain.
SUBUNIT	Binds NUBP1 and NUBP2. Interacts with PPP1R42 (By similarity).
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. KIFC1 is a 673 amino acid protein that belongs to the kinesin-like family of proteins. KIFC1 localizes to the nucleus and contains a C-terminal kinesin-motor domain. Functioning as a minus-end directed microtubule-dependent motor, KIFC1 works together with NuMA and cytoplasmic Dynein to organize microtubule minus ends at spindle poles. HeLa cells deficient in KIFC1 exhibit multipolar mitotic spindles, suggesting that KIFC1 is essential for bipolar spindle formation.

Additional Information

Gene ID	3833
Other Names	Kinesin-like protein KIFC1, Kinesin-like protein 2, Kinesin-related protein HSET, KIFC1, HSET, KNSL2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000

-10000

Format 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

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

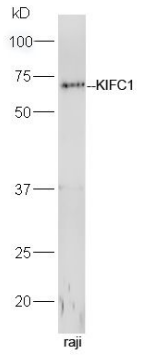
Name KIFC1

Synonyms HSET, KNSL2

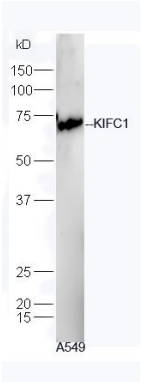
Function Minus end-directed microtubule-dependent motor required for bipolar spindle formation (PubMed:15843429). May contribute to movement of early endocytic vesicles (By similarity). Regulates cilium formation and structure (By similarity).

Cellular Location Nucleus {ECO:0000250|UniProtKB:Q9QWT9}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250|UniProtKB:Q9QWT9}. Cytoplasm, cytoskeleton, spindle {ECO:0000250|UniProtKB:Q9QWT9}. Early endosome {ECO:0000250|UniProtKB:Q9QWT9}. Note=Associated with nucleus during interphase, centrosomes in early and spindle in later mitosis {ECO:0000250|UniProtKB:Q9QWT9}

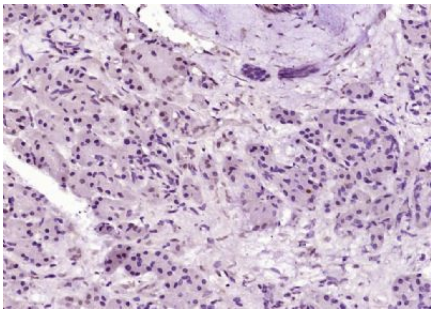
Images



Sample: Raji Cell (Human) Lysate at 40 ug
Primary: Anti-KIFC1 (AP58757) at 1/300 dilution
Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution
Predicted band size: 74 kD
Observed band size: 74 kD



Sample: A549 Cell (Human) Lysate at 40 ug
Primary: Anti-KIFC1 (AP58757) at 1/300 dilution
Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution
Predicted band size: 74 kD
Observed band size: 74 kD



Paraformaldehyde-fixed, paraffin embedded (Human pancreatic cancer); 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 (KIFC1) Polyclonal Antibody, Unconjugated (AP58757) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.