

KIFC1 Rabbit pAb

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Catalog # AP58757

Product Information

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|--------------------------------|--|
| Application | WB, IHC-P, IHC-F, IF |
| Primary Accession | Q9BW19 |
| Reactivity | Human, Rat |
| Predicted | Mouse, Pig, Horse |
| 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

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| Gene ID | 3833 |
| Other Names | Kinesin-like protein KIFC1, Kinesin-like protein 2, Kinesin-related protein HSET, KIFC1, HSET, KNSL2 |

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| Dilution | WB=1:500-2000,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. |

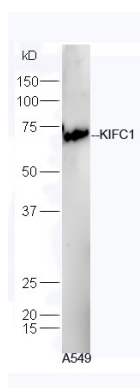
Protein Information

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|--------------------------|---|
| 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} |

Background

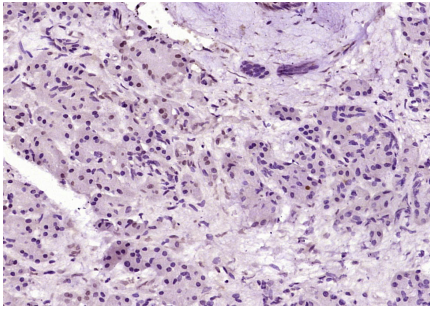
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Images



Sample: A549 Cell (Human) Lysate at 40 ug
 Primary: Anti-KIFC1 (AP58757) at 1/300 dilution
 Secondary: HRP conjugated Goat-Anti-rabbit IgG (AP58757-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) instructions and DAB staining.

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