

#12313 Store at -20C

KIFC1 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	75	Rabbit	#Q9BW19	3833

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

KIFC1 Antibody recognizes endogenous levels of total KIFC1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human KIFC1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Kinesin superfamily proteins (KIFs) are molecular motors that drive directional, microtubule-dependent intracellular transport of membrane-bound organelles and other macromolecules (e.g. proteins, nucleic acids). The intracellular transport functions of KIFs are fundamentally important for a variety of cellular functions, including mitotic and meiotic division, motility/migration, hormone and neurotransmitter release, and differentiation (1-4). Disruptions to KIF-mediated intracellular transport have been linked with a variety of pathologies, ranging from tumorigenesis to defects in higher order brain function such as learning and memory (4-6). KIFC1/HSET is a minus-end directed KIF involved in the processing and movement of early endocytic vesicles (7,8), as well as microtubule crosslinking and spindle assembly (9,10).

Background References

- Hirokawa, N. et al. (2009) *Nat Rev Mol Cell Biol* 10, 682-96.
- Yu, Y. and Feng, Y.M. (2010) *Cancer* 116, 5150-60.
- Park, J.J. et al. (2008) *Mol Endocrinol* 22, 989-1005.
- Hirokawa, N. et al. (2010) *Neuron* 68, 610-38.
- Yoshimura, Y. et al. (2010) *Mol Cell Biol* 30, 2206-19.
- Hirokawa, N. and Noda, Y. (2008) *Physiol Rev* 88, 1089-118.
- Nath, S. et al. (2007) *Mol Biol Cell* 18, 1839-49.
- Zhu, C. et al. (2005) *Mol Biol Cell* 16, 3187-99.
- Mountain, V. et al. (1999) *J Cell Biol* 147, 351-66.
- Cai, S. et al. (2009) *Mol Biol Cell* 20, 1348-59.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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