

KIFC1 Antibody



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| Applications: W, IP | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 75 | Source/Isotype: Rabbit | UniProt ID: #Q9BW19 | Entrez-Gene Id: 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 μ g/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). | | | | |
| | | Kinesin family member C1 (KIFC1/HSET) is a minus-end directed KIF involved in the processing and movement of early endocytic vesicles (7,8), as well as microtubule cross-linking 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 Beastivity | | | | s in at least one approve | | |

Species Reactivity Spe

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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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