

| Applications: W | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 110 | Source/Isotype: Rabbit | UniProt ID: #P33176 | Entrez-Gene Id: 3799 | |
|------------------------------|-----------------------------|---|---|---|--|---|--|
| Product Usage Information | | Application Western Blotting | | | Dilution 1:1000 | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. <i>Do not aliquot the antibody.</i> | | | | | |
| Specificity/Sensitivity | | KIF5B Antibody recognizes endogenous levels of total KIF5B protein. | | | | | |
| Source / Purification | | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys32 of human KIF5B protein. Antibodies are purified by peptide affinity chromatography. | | | | | |
| Background | | intracellular transport nucleic acids). The intra cellular functions, inclu neurotransmitter relea | of membrane-bour acellular transport uding mitotic and n ase, and differentia a variety of patholo | olecular motors that dri nd organelles and other functions of KIFs are fur neiotic division, motility, tion (1-4). Disruptions to ogies, ranging from tum ory (4-6). | macromolecules (endamentally import magnation, hormon MIF-mediated intra | .g., proteins, ant for a variety of e and cellular transport | |
| | | specifically expressed i of the <i>kif5B</i> gene resul plays an important rolo mitochondria and lyso | in neurons wherea: Ited in embryonic le e in the localization some, and can con ring KIF5B fusions t | ferred to as KIF5A, KIF5B s KIF5B is expressed ubi ethality (11). These and o and distribution of maj tribute to autophagy (1 to ALK and RET have bee | quitously (7-10). Tar other studies demo or organelles, inclu 1-13). In addition, g | geted disruption nstrate that KIF5B ding the ene | |
| Background Re | ferences | Hirokawa, N. et al. (2 Yu, Y. and Feng, Y.M Park, J.J. et al. (2008) Hirokawa, N. et al. (2 Yoshimura, Y. et al. (2 Yoshimura, Y. et al. (19 Nakagawa, T. et al. (199 Kanai, Y. et al. (2000) Meng, Y.X. et al. (19 Kanai, Y. et al. (2000) Meng, Y.X. et al. (19 Cardoso, C.M. et al Du, W. et al. (2016) Takeuchi, K. et al. (2 Takeuchi, K. et al. (2 Takeuchi, K. et al. (2 Kohno, T. et al. (2012) | . (2010) Cancer 116 Mol Endocrinol 22 2010) Neuron 68, 6 2010) Mol Cell Biol oda, Y. (2008) Physi 1997) Proc Natl Acc 2010 Cell Biol 119, 1 0 J Neurosci 20, 637 997) Endocrinology 98) Cell 93, 1147-58 (2009) PLoS One 4 Dev Cell 37, 326-36 2009) Clin Cancer R 2011) Cancer 117, 2 2012) Nat Med 18, 3 Genome Res 22, 43 | , 5150-60. , 989-1005. 10-38. 30, 2206-19. <i>ol Rev</i> 88, 1089-118. <i>ad Sci U S A</i> 94, 9654-9. 287-96. 4-84. 138, 1979-87. 3. , e4424. 5. <i>es</i> 15, 3143-9. 709-18. 378-81. 36-45. | | | |
| Species Reactiv | vity | Species reactivity is de | termined by testing | g in at least one approve | ed application (e.g., | western blot). | |
| Western Blot B | uffer | IMPORTANT: For wester TBS, 0.1% Tween® 20 a | | membrane with diluted haking, overnight. | primary antibody ir | ז 5% w/v BSA, 1X | |

W: Western Blotting

| Cross-Reactivity Key | H: Human M: Mouse R: Rat | | |
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