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e at -20C	KIF3B Antibody				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 85	Source: Rabbit	<b>UniProt ID:</b> #O15066	Entrez-Gene Id: 9371			
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. Do not aliquot the antibody.							
Specificity / Sensitivity		KIF3B Antibody recognizes endogenous levels of total KIF3B protein.							
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human KIF3B protein. Antibodies are purified by protein A and peptide affinity chromatography.							
Background References		<ul> <li>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).</li> <li>KIF3B binds the related kinesin family member 3A (KIF3A) and kinesin-associated protein 3 (KAP3) to form kinesin-2, an ATP-dependent heterotrimeric motor protein complex that uses plus-end-directed microtubule sliding activity to drive anterograde organelle transport (7). Studies in the zebrafish model suggest that KIF3B is required for the development and function of cilia in multiple cell types (8). Research studies show that KIF3B protein is upregulated in human hepatocellular carcinoma and that its expression is associated with poor prognosis in this cancer type (9).</li> </ul>							
		1. Hirokawa, N. et al. (20 2. Yu, Y. and Feng, Y.M. 3. Park, J.J. et al. (2008) 4. Hirokawa, N. et al. (20 5. Yoshimura, Y. et al. (20 6. Hirokawa, N. and Nod 7. Yamazaki, H. et al. (19 8. Zhao, C. et al. (2012) 9. Huang, X. et al. (2014)	09) Nat Rev Mol ( (2010) Cancer 11( Mol Endocrinol 22 10) Neuron 68, 61 010) Mol Cell Biol a, Y. (2008) Physic 095) J Cell Biol 13( Proc Natl Acad Sc ) Dig Dis Sci 59, 7	Cell Biol 10, 682-96. 6, 5150-60. 2, 989-1005. .0-38. 30, 2206-19. <i>Dl Rev</i> 88, 1089-118 D, 1387-99. <i>i U S A</i> 109, 2388-9 95-806.	3.				
Species Reactivity Western Blot Buffer		Species reactivity is deter	mined by testing i	n at least one appro	ved application (e.g., we	stern blot).			
		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.							
Applications Key		WB: Western Blotting							
Cross-Reactivity Key		<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>							
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## KIF3B Antibody (#13817) Datasheet Without Images Cell Signaling Technology

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