KIF3B Antibody	C T	Cell Signaling TECHNOLOGY®	
	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#1381	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane Danvers Ma	ssachusetts 01923 USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 85	Source/Isotype: Rabbit	UniProt ID: #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. <i>Do not aliquot the antibody.</i>				ycerol. Store at –		
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		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).						
		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).						
Background Re	eferences	 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. Yamazaki, H. et al. (1995) J Cell Biol 130, 1387-99. Zhao, C. et al. (2012) Proc Natl Acad Sci U S A 109, 2388-93. Huang, X. et al. (2014) Dig Dis Sci 59, 795-806. 						
Species Reactiv	/ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer			oate membrane with diluted primary antibody in 5% w/v nonfat 4°C with gentle shaking, overnight.				
Applications Ke	ey	W: Western Blotting	W: Western Blotting					
Cross-Reactivit	y Key	H: Human M: Mouse R: Rat Mk: Monkey						
Trademarks an	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
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