

Phospho-KIF1B (Ser1487) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

info@cellsignal.com cellsignal.com Web:

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: Reactivi W, IP H	t y: Sensitivity: Endogenous	MW (kDa): 140, 200	Source/Isotype: Rabbit	UniProt ID: #O60333	Entrez-Gene Id: 23095	
Product Usage Information	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
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		Phospho-KIF1B (Ser1487) Antibody recognizes endogenous levels of KIF1B protein only when phosphorylated at Ser1487.				
Species predicted to reach based on 100% sequence homology	Mouse, Rat, Monkey					
Source / Purification	corresponding to resi	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser1487 of human KIF1B protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	kinesin-motor domair mediated cellular trar (1-3). KIF1B is implicat axons by interaction v transported in axons Quantitative mass spe sites of KIF1B (5). Pho Technology [®] (CST) usi Phosphorylation at Se	Kinesin-like protein KIF1B is a member of the kinesin 3 family of C-kinesins that are characterized by a kinesin-motor domain in the carboxy-terminal region. As part of the general mechanism of kinesin-mediated cellular transport, C-kinesins are known to drive microtubule plus and minus end motilities (1-3). KIF1B is implicated in the transport of synaptic proteins to the cell periphery in neuronal cell axons by interaction with Rab3 guanine nucleotide exchange factor (3). Mitochondria are also often transported in axons by KIF1B (3-4). Quantitative mass spectrometry profiling of mitotic phosphorylation revealed putative phosphorylation sites of KIF1B (5). Phospho-KIF1B (Ser1487) Antibody is directed at a site identified by Cell Signaling Technology® (CST) using PhosphoScan®, CST's LC-MS/MS platform for modification site discovery. Phosphorylation at Ser1487 was discovered using an Akt substrate antibody. Please visit PhosphoSitePlus®, CST's modification site knowledgebase, at www.phosphosite.org for more information.				
Background References	2. Dagenbach, E.M. ar 3. Hirokawa, N. et al. (4. Wozniak, M.J. et al.	1. Hirokawa, N. et al. (1998) <i>Curr Opin Cell Biol</i> 10, 60-73. 2. Dagenbach, E.M. and Endow, S.A. (2004) <i>J Cell Sci</i> 117, 3-7. 3. Hirokawa, N. et al. (2009) <i>Nat Rev Mol Cell Biol</i> 10, 682-96. 4. Wozniak, M.J. et al. (2005) <i>BMC Cell Biol</i> 6, 35. 5. Dephoure, N. et al. (2008) <i>Proc Natl Acad Sci U S A</i> 105, 10762-7.				
Species Reactivity	Species reactivity is do	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffer		PORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key	W: Western Blotting I	W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key	H: Human	H: Human				
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