993 Store at -200

Phospho-KIF1B (Ser1487) Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene lo	
WB, IP	Н	Endogenous	140, 200	Rabbit	#O60333	23095	
Product Usage Information	Ар	plication			Dilution		
	We	stern Blotting		1:1000			
	Imr	nunoprecipitation			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 / Sens	Phospho-KIF1B (Ser1487) Antibody recomposphorylated at Ser1487.			gnizes endogenous levels of KIF1B protein only when			
Species predicted eact based on 10 sequence homolo	00%	ıse, Rat, Monkey					
Source / Purificat	to re	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		•		he kinesin 3 family of C-kinesins that are characterized by a nal 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

- 1. Hirokawa, N. et al. (1998) Curr Opin Cell Biol 10, 60-73.
- 2. Dagenbach, E.M. and Endow, S.A. (2004) J Cell Sci 117, 3-7.
- 3. Hirokawa, N. et al. (2009) Nat Rev Mol Cell Biol 10, 682-96.
- 4. Wozniak, M.J. et al. (2005) BMC Cell Biol 6, 35.
- 5. Dephoure, N. et al. (2008) Proc Natl Acad Sci U S A 105, 10762-7.

Species Reactivity

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Trademarks and Patents

Limited Uses

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