

Semaphorin 4B Antibody



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

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit	UniProt ID: #J3KNP4	Entrez-Gene Id: 10509
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		Semaphorin 4B Antibody recognizes endogenous levels of total semaphorin 4B protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro101 of human semaphorin 4B protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The semaphorin family of proteins is involved in axon guidance, cell migration, angiogenesis, and immune response. Plexins and neuropilins bind with high affinity to semaphorins to mediate their functions. Semaphorins are divided into seven classes of secreted or membrane-bound proteins. Members of Class 4 semaphorins include 4A through 4G; semaphorin 4B is a membrane-associated protein (1,2). Semaphorin 4B binds to the CLCP1 receptor and regulates cell motility (3). Furthermore, semaphorin 4B, like many other semaphorins, has a PDZ domain-binding motif at the carboxy terminus that interacts with PSD95 and localizes to the post-synaptic membrane (4).				
Background References		1. Pasterkamp, R.J. and Kolodkin, A.L. (2003) <i>Curr Opin Neurobiol</i> 13, 79-89. 2. Kruger, R.P. et al. (2005) <i>Nat Rev Mol Cell Biol</i> 6, 789-800. 3. Nagai, H. et al. (2007) <i>Oncogene</i> 26, 4025-31. 4. Burkhardt, C. et al. (2005) <i>FEBS Lett</i> 579, 3821-8.				
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse				
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