#13771 Store at -20C

Semaphorin 4B Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 95	Source: Rabbit	UniProt ID: #J3KNP4	Entrez-Gene Id: 10509
Product Usage Information	Ap	plication			Dilution	
	We	estern Blotting			1:1000	
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	sitivity Sen	Semaphorin 4B Antibody recognizes endogenous levels of total semaphorin 4B protein.				
Source / Purifica	resi	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	resp Sen 4 se Sen like	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 Ref	2. K 3. N	 Pasterkamp, R.J. and Kolodkin, A.L. (2003) Curr Opin Neurobiol 13, 79-89. Kruger, R.P. et al. (2005) Nat Rev Mol Cell Biol 6, 789-800. Nagai, H. et al. (2007) Oncogene 26, 4025-31. Burkhardt, C. et al. (2005) FEBS Lett 579, 3821-8. 				

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

Applications Key

WB: Western Blotting

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 Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

At Aeriopus 2: Zebransti B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans

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

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or

Semaphorin 4B Antibody (#13771) Datasheet Without Images Cell Signaling Technology

therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.