| Revision 1 | | | |
|--|---|----|--|
| Semaphorin 4B Antibody | | | |
| Store | Orders: 877-616-CELL (2355 orders@cellsignal.com | | |
| | Support: 877-678-TECH (8324 | 4) | |
| #3355 | Web: info@cellsignal.com cellsignal.com | | |
| # | 3 Trask Lane Danvers Massachusetts 01923 US | A | |
| For Research Use Only. Not for Use in Diagnostic Procedures. | | | |

| Applications: W | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 105 | 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. Do not aliquot the antibody. | | | | | |
| Specificity/Ser | sitivity | Semaphorin 4B Antibody detects endogenous levels of total Semaphorin 4B protein. | | | | | |
| Source / Purifi | cation | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding human Semaphorin 4B. 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 R | eferences | 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 Reacti | vity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | | | |
| Western Blot E | 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 K | ey | W: Western Blotting | | | | | |
| Cross-Reactivi | ty Key | H: Human | | | | | |
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