Store at -200

## **Plexin A1 Antibody**



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Applications: WB, IP	Reactivity: H R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 211	Source: Rabbit	<b>UniProt ID:</b> #Q9UIW2	Entrez-Gene Id 5361
Product Usage Information	Ap	plication			Dilution	
	We	stern Blotting			1:1000	
	Imi	nunoprecipitation			1:50	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		Plexin A1 Antibody detects endogenous levels of total Plexin A1 protein.				
Species predicted react based on 10 sequence homological contracts and contracts are contracted by the contract of the contrac	00%	ise				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Gln1875 of human Plexin A1. Antibodies are purified by peptide affinity chromatography.				
Background		Class 3 secreted semaphorin (Sema3A) is a chemorepellent that acts upon a wide variety of axons. As such, it induces a dramatic redistribution and depolymerization of actin filaments that results in growth cone collapse. Plexins are single membrane-spanning signaling proteins encompassing Plexin A1, A2, A3, and A4. Plexins form a complex with neuropilin-1 and -2 and the cell adhesion protein L1 to form a				

and repulsion of sympathetic axons by Sema3A (3). 1. Pasterkamp, R.J. and Kolodkin, A.L. (2003) Curr Opin Neurobiol 13, 79-89. **Background References** 2. Takahashi, T. and Strittmatter, S.M. (2001) Neuron 29, 429-39.

3. Zanata, S.M. et al. (2002) J Neurosci 22, 471-7.

**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 BSA, 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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functional semaphorin receptor (1,2). The GTPase Rnd1 binds to the cytoplasmic domain of Plexin A1 to trigger cytoskeletal collapse. In contrast, the GTPase RhoD blocks Rnd1-mediated Plexin A1 activation

information.

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