e at -20C	Plexin A3 (D2G12) Rabbit mAb		Cell Signaling		
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For Research Use Only	Not for Use	in Diagnostic Procedures.
FOI INESCAIGH USE OINS	1101 101 030	in Diagnostic Flocedules.

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 207	Source/Isotype: Rabbit IgG	UniProt ID: #P51805	Entrez-Gene Id: 55558	
Product Usage		Application			Dilution		
Information	١	Western Blotting			1:1000		
	I	mmunoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensit		Plexin A3 (D2G12) Rabbit mAb detects endogenous levels of total Plexin A3 protein. Plexin A3 (D2G12) Rabbit mAb may cross-react with other family members.					
Source / Purification	ource / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Val44 human Plexin A3.					ounding Val440 of	
Background Background Refere	si c fu fr tr a B n r f e nces 1. 2.	 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 functional semaphorin receptor (1,2). The GTPase Rho1 binds to the cytoplasmic domain of Plexin A1 to trigger cytoskeletal collapse. In contrast, the GTPase RhoD blocks Rho1-mediated Plexin A1 activation and repulsion of sympathetic axons by Sema3A (3). Both Plexin A3 and A4 mediate the responses to class 3 semaphorins in sensory and sympathetic neurons. In particular, Plexin A4 is responsible for signaling of Sema 3A via neuropilin-1, while Plexin A3 is responsible for signaling of Sema 3F via neuropilin-2 (4). Pasterkamp, R.J. and Kolodkin, A.L. (2003) <i>Curr Opin Neurobiol</i> 13, 79-89. Takahashi, T. and Strittmatter, S.M. (2001) <i>Neuron</i> 29, 429-39. 					
Species Reactivity	3.	. Zanata, S.M. et al. (200 . Yaron, A. et al. (2005) .	02) J Neurosci : Neuron 45, 513	22, 471-7.		estern blot).	
Western Blot Buffe							
Applications Key	w	/B: Western Blotting IP:	Immunoprecipi	itation			
Cross-Reactivity K	X:	Xenopus Z: zebrafish E	man M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster nopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse Guinea Pig Rab: rabbit All: all species expected				
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Plexin A3 (D2G12) Rabbit mAb (#5512) Datasheet Without Images Cell Signaling Technology

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