

For Research Use Only	Not for Use	in Diagnostic I	Procedures
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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 120-140	Source/Isotype: Rabbit IgG	UniProt ID: #O14786	Entrez-Gene Id: 8829	
Product Usage Information		Application Western Blotting		Dilution 1:1000			
	Im	munoprecipitation			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		Neuropilin-1 (D39A5) Rabbit mAb detects endogenous levels of total neuropilin-1 protein. This antibody also recognizes an 80 kDa protein of unknown origin.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a GST-fusion protein corresponding to residues of mouse neuropilin-1.					
Background	suc con A3, func trigg	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 pass, transmembrane 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 Rnd1 binds to the cytoplasmic domain of Plexin A1 to trigger cytoskeletal collapse. In contrast, the GTPase RhoD blocks Rnd1-mediated Plexin A1 activation and repulsion of sympathetic axons by Sema3A (3).					
	mec mig spe	liating axon growth ration, dendritic guic cific VEGF receptor	cone collapse. In lance and repair on tumor and en	ne glycoprotein, was ori addition, neuropilin-1 is of the adult nervous sys dothelial cells. Loss of n n is compounded by add	involved in axonal fas tem (4). Neuropilin-1 i europilin-1 function ca	sciculation, neuronal s also an isoform- auses vascular	
Background Refer	2. T 3. Z 4. H 5. K	akahashi, T. and Str anata, S.M. et al. (2 e, Z. et al. (2002) S awasaki, T. et al. (19	ittmatter, S.M. (20 002) J Neurosci 2 ci STKE 2002, R 999) Developmer	E1.			
Species Reactivity	y Spec	ies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffe		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	WB: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity K	X: X	 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 GP: Guinea Pig Rab: rabbit All: all species expected 					
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Limited Uses							

Neuropilin-1 (D62C6) Rabbit mAb (#3725) Datasheet Without Images Cell Signaling Technology

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