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# Neuropilin-2 (D39A5) XP® Rabbit



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

<b>Applications:</b> WB, IP, IHC-P, IF-F	Reactivity: M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 130	Source/Isotype: Rabbit IgG	UniProt ID: #O35375	Entrez-Gene Id: 18187	
Product Usage Information	Ap	plication		Dilution			
	We	estern Blotting		1:1000			
	Im	munoprecipitation			1:50		
	Im	munohistochemistry	/ (Paraffin)	1:200 - 1:800			
	Im	munofluorescence (	(Frozen)	1:500 - 1:2000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20$ °C. Do not aliquot the antibody.					
Specificity / Sensit	ivity Neu	Neuropilin-2 (D39A5) XP <sup>®</sup> Rabbit mAb detects endogenous levels of total neuropilin-2 protein.					
Source / Purification	*	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of mouse Neuropilin-2 protein.					
Background	suc con A3, fund 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).					
	not card can	Neuropilin-2, a single pass, transmembrane glycoprotein, can also bind to VEGF165 and VEGF145, but not VEGF121. Thus, in addition to neuronal guidance, neuropilin-2 plays a role in angiogenesis and cardiovascular functions (4). Although neuropilin-2 has been linked to tumor biology (e.g. pancreatic cancer, bladder cancer, lung cancer, and neuroblastoma), its role in tumor pathogenesis is still under investigation (4,5).					
Background Refer	2. T 3. Z 4. F		rittmatter, S.M. (20 2002) <i>J Neurosci 2</i> 6) <i>Blood</i> 108, 124	3-50.			

## **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 IHC-P: Immunohistochemistry (Paraffin)

IF-F: Immunofluorescence (Frozen)

# **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

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

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