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## p75NTR (D4B3) XP® Rabbit mAb



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

<b>Applications:</b> W, IP, IF-F, IF-IC, FC- L	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 75	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P08138	Entrez-Gene Id: 4804
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
		Immunoprecipitation Immunofluorescence			1:50	0 - 1:3200
		Immunofluorescence	, ,	istrv)		0 - 1:3200 0 - 1:3200
		Flow Cytometry (Live)		,,		- 1:800
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA	A and azide free) ver	sion of this product see	product #46333.	
Specificity/Sensitivity		p75NTR (D4B3) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total p75NTR protein. Nonspecific cytoplasmic staining is observed in fixed frozen mouse spleen and colon by immunofluorescence.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg198 of human p75NTR protein. This antibody is predicted to bind the extracellular amino-terminal region of p75NTR protein.				
Background		by multiple cysteine-r noncatalytic cytoplasi other receptor protei transmits trophic sign signaling, while TrkA	ich ligand-binding c mic domain (1). p75l ns. Working in conce nals into the cell. Bot can individually activ	, a member of the TNF r lomains, a single transn NTR displays paradoxica ert with Trk receptors, p th p75NTR and TrkA are vate the MAP kinase pat ssis of injured neurons a	nembrane sequenc al functions when a 75NTR recognizes i required to activat hway. In contrast, j	e, and a cting alone or with neurotrophins and e PI3K-Akt p75NTR, possibly
		removes the p75NTR tethered cleavage pro the transmembrane c	ectodomain, elimina oduct can still fine-tu domain to liberate th	al cleavage similar to AP ating ligand-mediated s une Trk-mediated trophi ne cytoplasmic tail from te to the nucleus (3,4).	ignaling. At this po c actions. γ-secreta	int, the membrane- se cleaves within
Background References		1. Chao, M.V. (2003) <i>Nat. Rev. Neurosci.</i> 4, 299-309. 2. Nykjaer, A. et al. (2005) <i>Curr. Opin. Neurobiol.</i> 15, 49-57. 3. Kanning, K.C. et al. (2003) <i>J. Neurosci.</i> 23, 5425-5436. 4. Jung, K.M. et al. (2003) <i>J. Biol. Chem.</i> 278, 42161-42169.				
Species Reactiv	rity	Species reactivity is d	etermined by testing	g in at least one approve	ed 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		<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IF-F:</b> Immunofluorescence (Frozen) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-L:</b> Flow Cytometry (Live)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
<b>-</b>	15	Call Classes III To 1		( C     C		

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