

Ret (E1N8X) XP® Rabbit mAb



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

Applications: W, IHC-P, IF-IC, FC- FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 150, 175	Source/Isotype: Rabbit IgG	UniProt ID: #P07949	Entrez-Gene Id: 5979
Product Usage		Application			Dilution	
Information		Western Blotting			1:1000	
		Immunohistochemist	•			0 - 1:1000
		Immunofluorescence (Immunocytochemistry)			1:100 - 1:400	
		Flow Cytometry (Fixed	d/Permeabilized)		1:20	0 - 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. <i>Do not aliquot the antibody.</i>				
		For a carrier free (BSA and azide free) version of this product see product #49887.				
Specificity/Sensitivity		Ret (E1N8X) XP [®] Rabbit mAb recognizes endogenous levels of total Ret protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro320 of human Ret protein.				
Background		The Ret proto-oncogene (c-Ret) is a receptor tyrosine kinase that functions as a multicomponent receptor complex in conjunction with other membrane-bound, ligand-binding GDNF family receptors (1). Ligands that bind the Ret receptor include the glial cell line-derived neurotrophic factor (GDNF) and its congeners neurturin, persephin, and artemin (2-4). Research studies have shown that alterations in the corresponding <i>RET</i> gene are associated with diseases including papillary thyroid carcinoma, multiple endocrine neoplasia (type 2A and 2B), familial medullary thyroid carcinoma, and a congenital developmental disorder known as Hirschsprung's disease (1,3). The Tyr905 residue located in the Ret kinase domain plays a crucial role in Ret catalytic and biological activity. Substitution of Phe for Tyr at position 905 dramatically inhibits Ret autophosphorylation activity (5).				
Background References		 Airaksinen, M.S. et al. (1999) Mol Cell Neurosci 13, 313-25. Takahashi, M. et al. (1989) Oncogene 4, 805-6. Manié, S. et al. (2001) Trends Genet 17, 580-9. Tallini, G. and Asa, S.L. (2001) Adv Anat Pathol 8, 345-54. Iwashita, T. et al. (1999) Oncogene 18, 3919-22. 				
Species Reactiv	rity	Species reactivity is de	etermined by testin	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 W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

H: Human M: Mouse **Cross-Reactivity Key**

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