699 Store at -200

Ret (E1N9A) Rabbit mAb



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Applications: WB, IP, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 150, 175	Source/Isotype: Rabbit IgG	UniProt ID: #P07949	Entrez-Gene Id: 5979	
Product Usage Information	Ap	Application			Dilution		
	We	estern Blotting			1:1000		
	Im	Immunoprecipitation			1:50		
	Flo	Flow Cytometry (Fixed/Permeabilized)			1:200 - 1:800		
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.					
	For	For a carrier free (BSA and azide free) version of this product see product #56596.					
Specificity / Sensitiv	ity Ret (E1N9A) 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	com that neu <i>RE</i> (typ Hirs Ret	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 Referer	2. T	 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. 					

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.

4. Tallini, G. and Asa, S.L. (2001) Adv Anat Pathol 8, 345-54.

5. Iwashita, T. et al. (1999) Oncogene 18, 3919-22.

Applications Key

WB: Western Blotting IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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