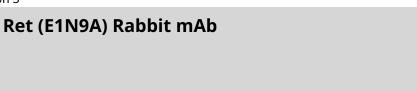
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Applications: W, IP, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 150, 175	Source/Isotype: Rabbit IgG	UniProt ID: #P07949	Entrez-Gene Id: 5979		
Product Usage Information		Application Western Blotting Immunoprecipitation Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 1:50 1:200 - 1:800			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less th 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
		For a carrier free (BSA and azide free) version of this product see product #56596.						
Specificity/Sens	sitivity	Ret (E1N9A) Rabbit mAb recognizes endogenous levels of total Ret protein.						
Source / Purific	ation	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 Re	ferences	1. Airaksinen, M.S. et al. (1999) <i>Mol Cell Neurosci</i> 13, 313-25. 2. Takahashi, M. et al. (1989) <i>Oncogene</i> 4, 805-6. 3. Manié, S. et al. (2001) <i>Trends Genet</i> 17, 580-9. 4. Tallini, G. and Asa, S.L. (2001) <i>Adv Anat Pathol</i> 8, 345-54. 5. Iwashita, T. et al. (1999) <i>Oncogene</i> 18, 3919-22.						
Species Reactiv	ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 Ke	ey .	W: Western Blotting IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity	у Кеу	H: Human						
Trademarks an	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		Alexa Fluor is a registered trademark of Life Technologies Corporation.						
		All other trademarks a more information.	are the property of t	heir respective owners.	Visit cellsignal.com	/trademarks for		
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