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e at -20C	Ret Antibody				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
0		Support:	877-678-TECH (8324)		
<i></i> #3220		Web:	info@cellsignal.com cellsignal.com		
++		3 Trask Lane Danvers Ma	ssachusetts 01923 USA		

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

Applications: WB, W-S, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 150, 175	Source: Rabbit	UniProt ID: #P07949	Entrez-Gene Id: 5979			
Product Usage		Application			Dilution				
Information	V	Vestern Blotting			1:1000				
	S	Simple Western™			1:10 - 1:50				
	Ir	mmunoprecipitation			1:25				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.							
Specificity / Sensitivity		Ret Antibody detects endogenous levels of total Ret protein.							
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr1085 of human Ret. Antibodies are purified by protein A and peptide affinity chromatography.							
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 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 W-S: Simple Western™ IP: Immunoprecipitation							
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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Ret Antibody (#3220) Datasheet Without Images Cell Signaling Technology

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