Phospho-Ret (Tyr905) Antibody



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Applications: W, IP	Reactivity: H Dm	Sensitivity: Endogenous	MW (kDa): 175	Source/Isotype: Rabbit	UniProt ID: #P07949	Entrez-Gene Id: 5979
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
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		Phospho-Ret (Tyr905) Antibody detects endogenous levels of Ret only when phosphorylated at tyrosine 905. This antibody may cross-react with other activated receptor tyrosine kinases.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr905 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. Plaza-Menacho, I. et al. (2014) Mol Cell 53, 738-51. 				

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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human Dm: D. melanogaster

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