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Phospho-Ret (Tyr905) Antibody



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Applications: WB, IP	Reactivity: H Dm	Sensitivity: Endogenous	MW (kDa): 175	Source: Rabbit	UniProt ID: #P07949	Entrez-Gene Id 5979	
Product Usage Information	Application			Dilution			
	Western Blotting			1:1000			
	Imr	nunoprecipitation			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 / Sens		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.					
,			s are produced by immunizing animals with a synthetic phosphopeptide corresponding ding Tyr905 of human Ret. Antibodies are purified by protein A and peptide affinity				
Background	com that neur <i>RET</i> (type Hirse 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 References

- 1. Airaksinen, M.S. et al. (1999) Mol Cell Neurosci 13, 313-25.
- 2. Takahashi, M. et al. (1989) Oncogene 4, 805-6.
- 3. Manié, S. et al. (2001) Trends Genet 17, 580-9.
- 4. Tallini, G. and Asa, S.L. (2001) Adv Anat Pathol $8,\,345\text{-}54.$
- 5. Iwashita, T. et al. (1999) *Oncogene* 18, 3919-22.
- 6. 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

WB: Western Blotting 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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