

Ret Antibody



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

| Applications: W, W-S, IP | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 150, 175 | Source/Isotype: Rabbit | UniProt ID: #P07949 | Entrez-Gene Id: 5979 |
|------------------------------------|------------------|--|------------------------------|---------------------------|--|--------------------------------|
| Product Usage Information | 2 | Application Western Blotting Simple Western™ Immunoprecipitation | | | Dilution 1:1000 1:10 - 1:50 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 W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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