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Ret (E1N9A) Rabbit mAb (PE Conjugate)



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

Source/Isotype: Applications: Reactivity: Sensitivity: **UniProt ID:** Entrez-Gene Id: FC-FP Н Endogenous Rabbit IgG #P07949 5979 **Product Usage Application** Dilution Information Flow Cytometry (Fixed/Permeabilized) 1:50 Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the **Storage** antibody. Protect from light. Do not freeze. Specificity / Sensitivity Ret (E1N9A) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Ret protein. Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro320 of human Ret protein. This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct **Product Description** flow cytometry analysis in human cells. This antibody is expected to exhibit the same species crossreactivity as the unconjugated Ret (E1N9A) Rabbit mAb (Flow Preferred) #14699.

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 RET 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, 345-54.

5. 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).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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