

Code No. 18121

**Anti-Human  
c-Ret (R787) Rabbit IgG Affinity Purify**

Volume : 100 µg

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**Introduction** : The *ret* proto-oncogene products (c-Ret) are expressed as 150kDa and 170kDa glycoproteins in neuroblastoma cells and as 150kDa and 190kDa glycoproteins in leukemia cells. These proteins are produced from a single polypeptide of 120kDa by posttranslational glycosylation. Although expression of the *ret* proto-oncogene was frequently detected in human tumors such as neuroblastoma, pheochromocytoma and thyroid medullary carcinoma, its physiological function is unknown. It turned out that the extracellular domain of the c-Ret contains a cadherin-related sequence that is known to be important for Ca<sup>2+</sup>-dependent homophilic binding of cadherins. The homologous sequence found in the c-Ret consists of about 110 amino acids and is tandemly repeated 3 – 4 times in the extracellular domains of all vertebrate cadherins. The sequence of the c-Ret showed 20-30% identity with the member of the cadherin superfamily in the amino acid level. This suggests that possibility that the c-Ret may function as a cell adhesion molecule like cadherins. This antibody specifically recognizes human c-Ret short isoform (RET9/R787).

**Antigen** : Synthetic peptide of the C terminal part of Human c-Ret sort isoform

**Purification** : Purified with antigen peptide

**Form** : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN<sub>3</sub>

**How to use** : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

**Stability** : Lyophilized product, 5 years at 2 - 8 °C  
: Solution, 2 years at -20 °C

**Application** : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after microwave treatment (in 10 mM citrate buffer, pH 6.0, for 10 min.). The recommended concentration is 2 - 5 µg/mL, however, the concentration should be optimized by each laboratory.  
: This antibody can be used for western blotting in concentration of 2 - 5 µg /mL.

**Specificity** : Cross-reacts with mouse and rat.

**Reference** : 1. Tsuzuki T *et al.* Spatial and temporal expression of the *ret* proto-oncogene product in embryonic, infant and adult rat tissues. *Oncogene*. 1995; 10 (1), 191-198

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*For research use only, not for use in diagnostic procedures.*