

Rabbit Anti-Phospho-Ret (Tyr1062) antibody

SL3385R

Product Name:	Phospho-Ret (Tyr1062)
Chinese Name:	磷酸化RET原癌基因抗体
Alias:	Ret(Phospho Y1062); Ret Proto-Oncogene; Cadherin-Related Family Member 16; Rearranged During Transfection; RET Receptor Tyrosine Kinase; Cadherin Family Member 12; Proto-Oncogene C-Ret; EC 2.7.10.1; CDHF12; CDHR16; RET51; PTC; Ret Proto-Oncogene (Multiple Endocrine Neoplasia And Medullary Thyroid Carcinoma 1, Hirschsprung Disease) ; Multiple Endocrine Neoplasia And Medullary Thyroid Carcinoma 1; Proto-Oncogene Tyrosine-Protein Kinase Receptor Ret; Hydroxyaryl-Protein Kinase; RET Transforming Sequence; Receptor Tyrosine Kinase; Hirschsprung Disease 1; Oncogene RET; EC 2.7.10; RET-ELE1; MEN2B; HSCR1;
Ouganism Sussian	Dallit
Organism Species:	Rabbit
Clonality:	Polyclonal S
React Species:	Human,Mouse,Rat,Dog,Cow,Rabbit, WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-
Applications:	500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	34/76/122kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	lmg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human Ret around the phosphorylation site of Tyr1062:KL(p-Y)GM
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

Dephosphorylated by PTPRJ on Tyr-905, Tyr-1015 and Tyr-1062.5 Publications Proteolytically cleaved by caspase-3. The soluble RET kinase fragment is able to induce cell death. The extracellular cell-membrane anchored RET cadherin fragment accelerates cell adhesion in sympathetic neurons.

DISEASE:

Defects in RET may be a cause of colorectal cancer (CRC) [MIM:114500]. Defects in RET are a cause of Hirschsprung disease type 1 (HSCR1) [MIM:142623]. HSCR1 is a disorder of neural crest development characterized by the absence of intramural ganglion cells in the myenteric and submucosal plexuses of the gastrointestinal tract, often resulting in intestinal obstruction. Total colonic aganglionosis and total intestinal Hirschsprung disease also occur. Occasionally, MEN2A or FMTC occur in association with HSCR1.

Defects in RET are the cause of medullary thyroid carcinoma (MTC) [MIM:155240]. MTC is a rare tumor derived from the C cells of the thyroid. Three hereditary forms are known, that are transmitted in an autosomal dominant fashion: (a) multiple neoplasia type 2A (MEN2A), (b) multiple neoplasia type IIB (MEN2B) and (c) familial MTC (FMTC), which occurs in 25-30% of MTC cases and where MTC is the only clinical manifestation.

Defects in RET are the cause of multiple neoplasia type 2B (MEN2B) [MIM:162300]. MEN2B is an uncommon inherited cancer syndrome characterized by predisposition to MTC and phaeochromocytoma which is associated with marfanoid habitus, mucosal neuromas, skeletal and ophtalmic abnormalities, and ganglioneuromas of the intestine tract. Then the disease progresses rapidly with the development of metastatic MTC and a pheochromocytome in 50% of cases.

Defects in RET are a cause of susceptibility to pheochromocytoma (PCC) [MIM:171300]. A catecholamine-producing tumor of chromaffin tissue of the adrenal medulla or sympathetic paraganglia. The cardinal symptom, reflecting the increased secretion of epinephrine and norepinephrine, is hypertension, which may be persistent or intermittent.

Defects in RET are the cause of multiple neoplasia type 2A (MEN2A) [MIM:171400]; also known as multiple neoplasia type 2 (MEN2). MEN2A is the most frequent form of medullary thyroid cancer (MTC). It is an inherited cancer syndrome characterized by MTC, phaeochromocytoma and/or hyperparathyroidism.

Defects in RET are a cause of thyroid papillary carcinoma (TPC) [MIM:188550]. TPC is a common tumor of the thyroid that typically arises as an irregular, solid or cystic mass from otherwise normal thyroid tissue. Papillary carcinomas are malignant neoplasm characterized by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells. Note=Chromosomal aberrations involving RET are found in thyroid papillary carcinomas. Inversion inv(10)(q11.2;q21) generates the RET/CCDC6 (PTC1) oncogene; inversion inv(10)(q11.2;q11.2) generates the RET/NCOA4 (PTC3) oncogene; translocation t(10;14)(q11;q32) with GOLGA5 generates the RET/GOLGA5 (PTC5) oncogene; translocation t(8;10)(p21.3;q11.2) with PCM1 generates the PCM1/RET fusion; translocation t(6;10)(p21.3;q11.2) with RFP generates the Delta RFP/RET oncogene; translocation t(1;10)(p13;q11) with TRIM33 generates the

TRIM33/RET (PTC7) oncogene; translocation t(7;10)(q32;q11) with TRIM24/TIF1 generates the TRIM24/RET (PTC6) oncogene. The PTC5 oncogene has been found in 2 cases of PACT in children exposed to radioactive fallout after Chernobyl. A chromosomal aberration involving TRIM27/RFP is found in thyroid papillary carcinomas. Translocation t(6;10)(p21.3;q11.2) with RET. The translocation generates TRIM27/RET and delta TRIM27/RET oncogenes.

Defects in RET are a cause of renal adysplasia (RADYS) [MIM:191830]; also known as renal agenesis or renal aplasia. Renal agenesis refers to the absence of one (unilateral) or both (bilateral) kidneys at birth. Bilateral renal agenesis belongs to a group of perinatally lethal renal diseases, including severe bilateral renal dysplasia, unilateral renal agenesis with contralateral dysplasia and severe obstructive uropathy. Defects in RET are a cause of congenital central hypoventilation syndrome (CCHS) [MIM:209880]; also known as congenital failure of autonomic control or Ondine curse. CCHS is a rare disorder characterized by abnormal control of respiration in the absence of neuromuscular or lung disease, or an identifiable brain stem lesion. A deficiency in autonomic control of respiration results in inadequate or negligible ventilatory and arousal responses to hypercapnia and hypoxemia.

Similarity:

Belongs to the protein kinase superfamily. Tyr protein kinase family. Contains 1 cadherin domain. Contains 1 protein kinase domain.

SWISS: P07949

Gene ID: 5979

Database links:

Entrez Gene: 5979Human

Entrez Gene: 19713Mouse

Entrez Gene: 24716Rat

<u>Omim: 164761</u>Human

SwissProt: P07949Human

SwissProt: P35546Mouse

Unigene: 350321Human

Unigene: 57199Mouse

Unigene: 93200Rat

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
RET指状蛋白属于一个较大的B-盒Ring finger protein家族, RET与酪氨酸激酶融合后就变为癌基因.

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