RET Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RET, Polyclonal Antibody
Full Product Name	RET Polyclonal Antibody
Product Gene Name	anti-RET antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	119kDa; 124kDa
OMIM	114500
3D Structure	ModBase 3D Structure for P07949
Immunogen	Recombinant protein of human Ret (NP_066124.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RET antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-RET antibody	WB: 1:500-1:2000 IF: 1:50-1:200
Related Product Information for anti-RET antibody	This gene, a member of the cadherin superfamily, encodes one of the receptor tyrosine kinases, which are cell-surface molecules that transduce signals for cell growth and differentiation. This gene plays a crucial role in neural crest development, and it can undergo oncogenic activation in vivo and in vitro by cytogenetic rearrangement. Mutations in this gene are associated with the disorders multiple endocrine neoplasia, type IIA, multiple endocrine neoplasia, type IIB, Hirschsprung disease, and medullary thyroid carcinoma. Two transcript variants encoding different isoforms have been found for this gene. Additional transcript variants have been described but their biological validity has not been confirmed.
Other Notes	Small volumes of anti-RET antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RET purchase	MBS8566093 is an antibody targeting RET. Also known as RET Polyclonal Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RET. It may not necessarily be applicable to this product.

NCBI GI #	10862701
NCBI GeneID	5979
NCBI Accession #	NP_065681.1

UniProt Primary Accession #	P07949
UniProt Related Accession #	P07949
GenBank Nucleotide #	NP_065681.1
NCBI Official Full Name	proto-oncogene tyrosine-protein kinase receptor Ret isoform c
NCBI Official Synonym Full Names	ret proto-oncogene
NCBI Official Symbol	RET
NCBI Official Synonym Symbols	PTC; MTC1; HSCR1; MEN2A; MEN2B; CDHF12; CDHR16; RET-ELE1
UniProt Protein Name	Proto-oncogene tyrosine-protein kinase receptor Ret
UniProt Synonym Protein Names	Cadherin family member 12; Proto-oncogene c-Ret
Protein Family	Proto-oncogene tyrosine-protein kinase receptor
UniProt Gene Name	RET
UniProt Synonym Gene Names	CDHF12; CDHR16; PTC; RET51
UniProt Entry Name	RET_HUMAN
NCBI Protein Information	proto-oncogene tyrosine-protein kinase receptor Ret
NCBI Summary for RET	This gene encodes a transmembrane receptor and member of the tyrosine protein kinase family of proteins. Binding of ligands such as GDNF (glial cell-line derived neurotrophic factor) and other related proteins to the encoded receptor stimulates receptor dimerization and activation of downstream signaling pathways that play a role in cell differentiation, growth, migration and survival. The encoded receptor is important in development of the nervous system, and the development of organs and tissues derived from the neural crest. This proto-oncogene can undergo oncogenic activation through both cytogenetic rearrangement and activating point mutations. Mutations in this gene are associated with Hirschsprung disease and central hypoventilation syndrome and have been identified in patients with renal agenesis. [provided by RefSeq, Sep 2017]
UniProt Comments for RET	Ret: a proto-oncogenic receptor tyrosine kinase. Receptor for glial cell line-derived neurotropic factor (GDNF) and its congeners neurturin, persephin and artemin. Part of a multicompetent receptor complex with other membrane-bound ligand-binding GDNF family receptors (aGFRs). Required for development of the kidney and neural crest-derived cell types. Three alternatively spliced isoforms have been described. Protein type: Membrane protein, integral; Oncoprotein; Protein kinase, tyrosine (receptor); EC 2.7.10.1; Protein kinase, TK; Kinase, protein; TK group; Ret family Chromosomal Location of Human Ortholog: 10q11.2 Cellular Component: intracellular membrane-bound organelle; integral to plasma membrane; cytoplasm; plasma membrane; endosome membrane; receptor complex; lipid raft Molecular Function: protein binding; protein-tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity; calcium ion binding; ATP binding Biological Process: response to drug; regulation of cell adhesion; caspase activation; positive regulation of neuron maturation; posterior midgut development; peptidyl-tyrosine phosphorylation; positive regulation of cell size; positive regulation of transcription, DNA-dependent; membrane protein proteolysis; MAPKKK cascade; positive regulation of cell adhesion mediated by integrin; response to pain; regulation of axonogenesis; signal transduction; neuron maturation; protein amino acid phosphorylation; enteric nervous system development; retina development in camera-type eye; ureteric bud development; embryonic epithelial tube formation; neuron adhesion; homophilic cell adhesion; neural crest cell migration; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of cell migration Disease: Multiple Endocrine Neoplasia, Type Iib; Multiple Endocrine Neoplasia, Type Iia; Thyroid Carcinoma, Papillary; Hirschsprung Disease, Susceptibility To, 1; Thyroid Carcinoma, Familial Medullary
Research Articles on RET	**1.** NCOA4-RET as the dominant fusion in intercalated duct type salivary gland intraductal carcinoma. A subset of IC patients with apocrine variant IC harbor a novel TRIM27-RET.

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