Ret ELISA Kit for Human, Mouse, Rat

PRODUCT OVERVIEW

Product Name	Ret, ELISA Kit
Full Product Name	Phospho-Ret (Tyr1015) Colorimetric Cell-Based ELISA Kit
Product Gene Name	RET elisa kit
Product Synonym Names	C-ret; kinase Ret; Proto-oncogene ret precursor
Species Reactivity	Human, Mouse, Rat
Assay Type	Phospho Cell-Based ELISA
Samples	Researchers plate their cell line of choice
Sensitivity	>=5000 cells/well
Form/Format	Two 96-Well Plates
Preparation and Storage	Store at 4 degree C.
Molecular Weight	124319
OMIM	AK291807 mRNA
3D Structure	ModBase 3D Structure for P07949
Reactivity Note	Human: Y1015, Mouse: Y1016, Rat: Y1017
Detection Method	Colorimetric 450 nm
Product Categories/Family for RET elisa kit	Cell Based ELISA Kit
Related Product Information for RET elisa kit	MBS9501154 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Ret, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing RET. The ELISA analytical biochemical technique of the MBS9501154 kit is based on RET antibody-RET antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RET antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RET. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of RET elisa kit 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.

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 Secondary Accession #	Q15250; Q9BTB0; Q9H4A2; A8K6Z2

UniProt Related Accession #	P07949
GenBank Nucleotide #	NM_020630.5
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
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: EC 2.7.10.1; Kinase, protein; Membrane protein, integral; Oncoprotein; Protein kinase, TK; Protein kinase, tyrosine (receptor); Ret family; TK group Chromosomal Location of Human Ortholog: 10q11.21 Cellular Component: axon; cell soma; cytosol; dendrite; early endosome; endosome membrane; integral component of plasma membrane; intracellular membrane-bound organelle; membrane raft; plasma membrane; plasma membrane protein complex; receptor complex Molecular Function: ATP binding; calcium ion binding; protein binding; protein tyrosine kinase activity; Ras guanyl-nucleotide exchange factor activity; receptor activity; transmembrane receptor protein tyrosine kinase activity Biological Process: axon guidance; cellular response to retinoic acid; embryonic epithelial tube formation; enteric nervous system development; homophilic cell adhesion; MAPK cascade; membrane protein proteolysis; neural crest cell migration; neuron adhesion; neuron maturation; peptidyl-tyrosine phosphorylation; positive regulation of cell adhesion mediated by integrin; positive regulation of cell migration; positive regulation of cell size; positive regulation of extrinsic apoptotic signaling pathway in absence of ligand; positive regulation of metanephric glomerulus development; positive regulation of neuron maturation; positive regulation of neuron projection development; positive regulation of peptidyl-serine phosphorylation of STAT protein; positive regulation of transcription, DNA-templated; posterior midgut development; protein amino acid phosphorylation; regulation of axonogenesis; regulation of cell adhesion; regulation of molecular function; response to drug; response to pain; retina development in camera-type eye; signal transduction; transmembrane receptor protein tyrosine kinase signaling pathway; ureteric bud development Disease: Hirschsprung Disease, Susceptibility To, 1; Multiple Endocrine Neoplasia, Type Iia; Multiple Endocrine Neoplasia, Type Iib; Thyroid Carcinoma, Familial Medullary; Thyroid Carcinoma, Papillary
Research Articles on RET	**1.** increased overall survival was observed in breast cancer patients who are carriers of the variant allele of SNP rs2435357

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