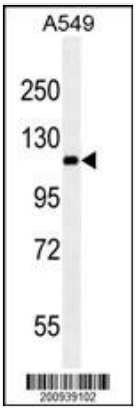
RET Antibody – Mouse Monoclonal

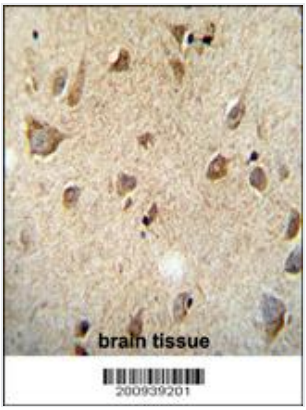
PRODUCT OVERVIEW

Product Name	RET, Monoclonal Antibody
Full Product Name	RET Antibody (Ascites)
Product Gene Name	anti-RET antibody
Product Synonym Names	Proto-oncogene tyrosine-protein kinase receptor Ret; Cadherin family member 12; Proto-oncogene c-Ret; Soluble RET kinase fragment; Extracellular cell-membrane anchored RET cadherin 120 kDa fragment; RET; CDHF12; CDHR16; PTC; RET51
Clonality	Monoclonal
Isotype	IgM,K
Clone Number	188CT11.2.3
Host	Mouse
Species Reactivity	Human
Form/Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Specificity	This RET Monoclonal antibody was raised using purified His-tagged recombinant human RET.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	124319
OMIM	114500
3D Structure	ModBase 3D Structure for P07949
Antigen Type	Recombinant Protein
Antigen Source	HUMAN
Product Categories/Family for anti-RET antibody	Cancer; Signal Transduction
Applications Tested/Suitable for anti-RET antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-RET antibody	WB~~1:500~16000 IHC~~1:50~100 IF~~1:10~50
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.

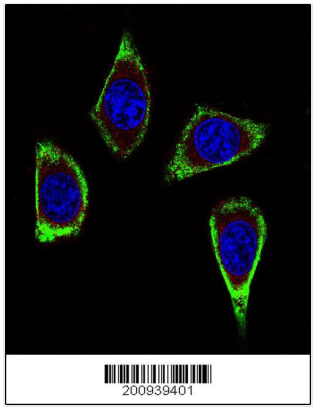
Product References and Citations for anti-RET antibody	Siqueira, D.R., et al. Endocr. Relat. Cancer 17(4):953-963(2010) Gockel, H.R., et al. Hum. Genet. 128(4):353-364(2010) Kim, H.K., et al. Anticancer Res. 30(9):3621-3627(2010) Pacini, F., et al. Clin Oncol (R Coll Radiol) 22(6):475-485(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :
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	MBS9200010 is an antibody targeting RET. Also known as RET Antibody (Ascites). Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-RET antibody
RET western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the RET antibody detected the RET protein (arrow).



Immunohistochemistry (IHC) of anti-RET antibody
RET Monoclonal(Ascites) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RET Monoclonal(Ascites) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-RET antibody
Confocal immunofluorescent analysis of RET Antibody (Ascites) with MDA-MB231 cell followed by Alexa Fluor 488-conjugated goat anti-mouse IgG (green).Actin filaments have been labeled with Alexa Fluor? 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).

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
NCBI Related Accession #	NP_066124.1
UniProt Primary Accession #	P07949

UniProt Secondary Accession #	Q15250; Q9BTB0; Q9H4A2; A8K6Z2
UniProt Related Accession #	P07949
GenBank Nucleotide #	NM_020630.4
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; RET51; 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, 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. [provided by RefSeq, Jul 2008]
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: Oncoprotein; Kinase, protein; Membrane protein, integral; EC 2.7.10.1; Protein kinase, TK; Protein kinase, tyrosine (receptor); 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; calcium ion binding; transmembrane receptor protein tyrosine kinase activity; receptor activity; ATP binding Biological Process: peptidyl-tyrosine phosphorylation; positive regulation of cell size; positive regulation of transcription, DNA-dependent; membrane protein proteolysis; response to pain; signal transduction; regulation of axonogenesis; protein amino acid phosphorylation; enteric nervous system development; neuron maturation; ureteric bud development; embryonic epithelial tube formation; neuron adhesion; neural crest cell migration; caspase activation; regulation of cell adhesion; response to drug; positive regulation of neuron maturation; posterior midgut development; MAPKKK cascade; positive regulation of cell adhesion mediated by integrin; retina development in camera-type eye; homophilic cell adhesion; 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.** The mutation found in the RET proto-oncogene responsible for multiple endocrine neoplasia type 2A in pediatric patients in the south of Spain is the C635Y

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