

RET Antibody (Ascites)
Mouse Monoclonal Antibody (Mab)
Catalog # AM1869a**Specification**

RET Antibody (Ascites) - Product Information

Application	IF, WB, IHC-P,E
Primary Accession	P07949
Other Accession	NP_065681.1 , NP_066124.1
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgM,K

RET Antibody (Ascites) - Additional Information**Gene ID** 5979**Other 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

Target/Specificity

This RET Monoclonal antibody was raised using purified His-tagged recombinant human RET.

Dilution

IF~~1:10~50
WB~~1:500~16000
IHC-P~~1:50~100

Format

Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RET Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

RET Antibody (Ascites) - Protein Information**Name** RET ([HGNC:9967](#))**Synonyms** CDHF12, CDHR16, PTC, RET51

Function Receptor tyrosine-protein kinase involved in numerous cellular mechanisms including cell proliferation, neuronal navigation, cell migration, and cell differentiation upon binding with glial cell derived neurotrophic factor family ligands. Phosphorylates PTK2/FAK1. Regulates both cell death/survival balance and positional information. Required for the molecular mechanisms orchestration during intestine organogenesis; involved in the development of enteric nervous system and renal organogenesis during embryonic life, and promotes the formation of Peyer's patch-like structures, a major component of the gut-associated lymphoid tissue. Modulates cell adhesion via its cleavage by caspase in sympathetic neurons and mediates cell migration in an integrin (e.g. ITGB1 and ITGB3)-dependent manner. Involved in the development of the neural crest. Active in the absence of ligand, triggering apoptosis through a mechanism that requires receptor intracellular caspase cleavage. Acts as a dependence receptor; in the presence of the ligand GDNF in somatotrophs (within pituitary), promotes survival and down regulates growth hormone (GH) production, but triggers apoptosis in absence of GDNF. Regulates nociceptor survival and size. Triggers the differentiation of rapidly adapting (RA) mechanoreceptors. Mediator of several diseases such as neuroendocrine cancers; these diseases are characterized by aberrant integrins-regulated cell migration. Mediates, through interaction with GDF15-receptor GFRAL, GDF15-induced cell-signaling in the brainstem which induces inhibition of food-intake. Activates MAPK- and AKT- signaling pathways (PubMed:[28846097](#), PubMed:[28953886](#), PubMed:[28846099](#)). Isoform 1 in complex with GFRAL induces higher activation of MAPK- signaling pathway than isoform 2 in complex with GFRAL (PubMed:[28846099](#)).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein Note=Predominantly located on the plasma membrane. In the presence of SORL1 and GFRA1, directed to endosomes.

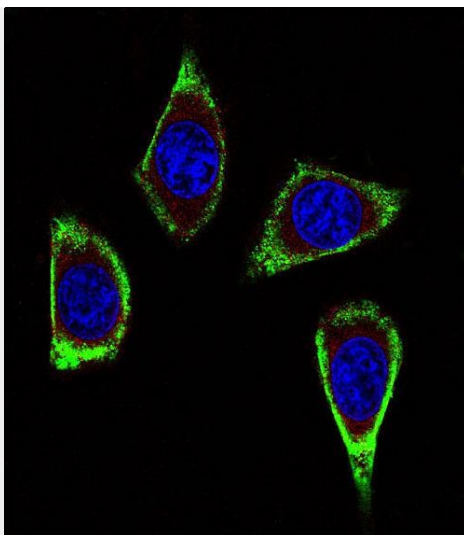
RET Antibody (Ascites) - Protocols

Provided below are standard protocols that you may find useful for product applications.

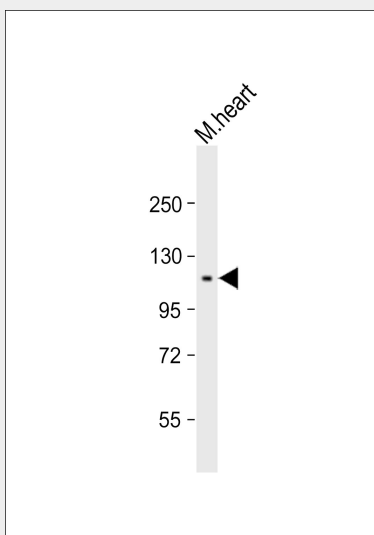
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RET Antibody (Ascites) - Images

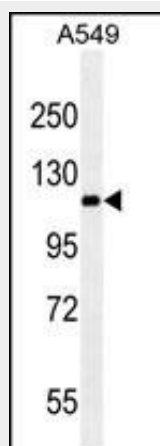




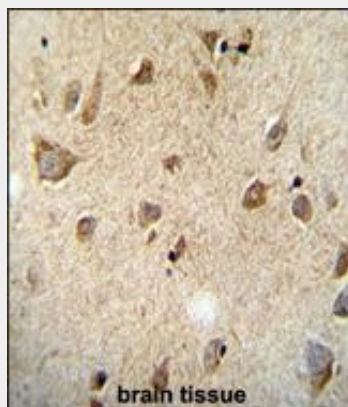
Confocal immunofluorescent analysis of RET Antibody (Ascites)(Cat#AM1869a) with MDA-MB231 cell followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG (green). Actin filaments have been labeled with Alexa Fluor® 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).



"Anti-RET Antibody (Ascites) at 1:1000 dilution + mouse heart lysate Secondary Goat Anti-mouse IgM, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 124319 Da Blocking/Dilution buffer: 5% NFDM/TBST."



RET (Cat. #AM1869a) western blot analysis in A549 cell line lysates (35µg/lane). This demonstrates the RET antibody detected the RET protein (arrow).



RET Monoclonal(Ascites) (Cat. #AM1869a) 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.

RET Antibody (Ascites) - Background

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.

RET Antibody (Ascites) - References

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) :

RET Antibody (Ascites) - Citations

- [Prognostic and Predictive Values of Subcellular Localisation of RET in Renal Clear-Cell Carcinoma.](#)