

**Anti-Ret Rabbit Monoclonal Antibody**  
Catalog # ABO13260

**Specification**

**Anti-Ret Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	<a href="#">P07949</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Ret Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-Ret Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 5979

**Other Names**

Proto-oncogene tyrosine-protein kinase receptor Ret, 2.7.10.1, Cadherin family member 12, Proto-oncogene c-Ret, Soluble RET kinase fragment, Extracellular cell-membrane anchored RET cadherin 120 kDa fragment, RET {ECO:0000303|PubMed:2660074, ECO:0000312|HGNC:HGNC:9967}

**Calculated MW**

124319 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50

**Subcellular Localization**

Cell membrane ; Single-pass type I membrane protein. Endosome membrane ; Single-pass type I membrane protein.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Ret

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated**

## freeze-thaw cycles.

### Anti-Ret Rabbit Monoclonal Antibody - Protein Information

**Name** RET {ECO:0000303|PubMed:2660074, ECO:0000312|HGNC:HGNC:9967}

#### Function

Receptor tyrosine-protein kinase involved in numerous cellular mechanisms including cell proliferation, neuronal navigation, cell migration, and cell differentiation in response to glia cell line- derived growth family factors (GDNF, NRTN, ARTN, PSPN and GDF15) (PubMed:<a href="http://www.uniprot.org/citations/20064382" target="\_blank">20064382</a>, PubMed:<a href="http://www.uniprot.org/citations/20616503" target="\_blank">20616503</a>, PubMed:<a href="http://www.uniprot.org/citations/20702524" target="\_blank">20702524</a>, PubMed:<a href="http://www.uniprot.org/citations/21357690" target="\_blank">21357690</a>, PubMed:<a href="http://www.uniprot.org/citations/21454698" target="\_blank">21454698</a>, PubMed:<a href="http://www.uniprot.org/citations/24560924" target="\_blank">24560924</a>, PubMed:<a href="http://www.uniprot.org/citations/28846097" target="\_blank">28846097</a>, PubMed:<a href="http://www.uniprot.org/citations/28846099" target="\_blank">28846099</a>, PubMed:<a href="http://www.uniprot.org/citations/28953886" target="\_blank">28953886</a>, PubMed:<a href="http://www.uniprot.org/citations/31118272" target="\_blank">31118272</a>). In contrast to most receptor tyrosine kinases, RET requires not only its cognate ligands but also coreceptors, for activation (PubMed:<a href="http://www.uniprot.org/citations/21994944" target="\_blank">21994944</a>, PubMed:<a href="http://www.uniprot.org/citations/23333276" target="\_blank">23333276</a>, PubMed:<a href="http://www.uniprot.org/citations/28846097" target="\_blank">28846097</a>, PubMed:<a href="http://www.uniprot.org/citations/28846099" target="\_blank">28846099</a>, PubMed:<a href="http://www.uniprot.org/citations/28953886" target="\_blank">28953886</a>). GDNF ligands (GDNF, NRTN, ARTN, PSPN and GDF15) first bind their corresponding GDNFR coreceptors (GFRA1, GFRA2, GFRA3, GFRA4 and GFRAL, respectively), triggering RET autophosphorylation and activation, leading to activation of downstream signaling pathways, including the MAPK- and AKT-signaling pathways (PubMed:<a href="http://www.uniprot.org/citations/21994944" target="\_blank">21994944</a>, PubMed:<a href="http://www.uniprot.org/citations/23333276" target="\_blank">23333276</a>, PubMed:<a href="http://www.uniprot.org/citations/24560924" target="\_blank">24560924</a>, PubMed:<a href="http://www.uniprot.org/citations/25242331" target="\_blank">25242331</a>, PubMed:<a href="http://www.uniprot.org/citations/28846097" target="\_blank">28846097</a>, PubMed:<a href="http://www.uniprot.org/citations/28846099" target="\_blank">28846099</a>, PubMed:<a href="http://www.uniprot.org/citations/28953886" target="\_blank">28953886</a>). Acts as a dependence receptor via the GDNF-GFRA1 signaling: 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 (PubMed:<a href="http://www.uniprot.org/citations/20616503" target="\_blank">20616503</a>, PubMed:<a href="http://www.uniprot.org/citations/21994944" target="\_blank">21994944</a>). Required for the molecular mechanisms orchestration during intestine organogenesis via the ARTN-GFRA3 signaling: 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 (By similarity). Mediates, through interaction with GDF15-receptor GFRAL, GDF15-induced cell-signaling in the brainstem which triggers an aversive response, characterized by nausea, vomiting, and/or loss of appetite in response to various stresses (PubMed:<a href="http://www.uniprot.org/citations/28846097" target="\_blank">28846097</a>, PubMed:<a href="http://www.uniprot.org/citations/28846099" target="\_blank">28846099</a>, PubMed:<a href="http://www.uniprot.org/citations/28953886" target="\_blank">28953886</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/20702524" target="\_blank">20702524</a>, PubMed:<a href="http://www.uniprot.org/citations/21357690" target="\_blank">21357690</a>). Also active in the absence of ligand, triggering apoptosis

through a mechanism that requires receptor intracellular caspase cleavage (PubMed:<a href="http://www.uniprot.org/citations/21357690" target="\_blank">21357690</a>). Triggers the differentiation of rapidly adapting (RA) mechanoreceptors (PubMed:<a href="http://www.uniprot.org/citations/20064382" target="\_blank">20064382</a>). Involved in the development of the neural crest (By similarity). Regulates nociceptor survival and size (By similarity). Phosphorylates PTK2/FAK1 (PubMed:<a href="http://www.uniprot.org/citations/21454698" target="\_blank">21454698</a>).

#### Cellular Location

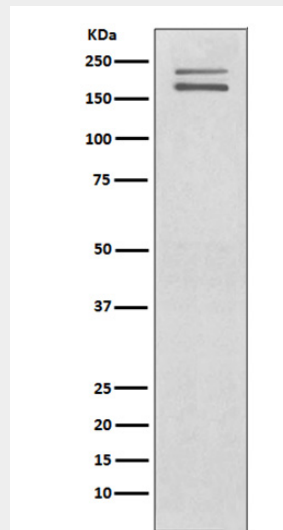
Cell membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein Note=Predominantly located on the plasma membrane (PubMed:2333276, PubMed:9575150). In the presence of SORL1 and GFRA1, directed to endosomes (PubMed:2333276).

#### Anti-Ret Rabbit Monoclonal Antibody - 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](#)

#### Anti-Ret Rabbit Monoclonal Antibody - Images



Western blot analysis of Ret expression in SH-SY5Y cell lysate.