

Rabbit Ret Polyclonal Antibody | anti-Ret antibody

Phospho-Ret (Tyr1096) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31389	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%)	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

Ret; Polyclonal Antibody; Phospho-Ret (Tyr1096) Antibody; C ret; Cadherin family member 12; Cadherin related family member 16; CDHF 12; CDHF12; CDHR16; ELKS Fusion gene; HSCR 1; HSCR1; Hydroxyaryl protein kinase; MEN2A; MEN2B; MTC 1; MTC1; Multiple endocrine neoplasia and medullary thyroid carcinoma 1; Oncogene RET; Proto oncogene tyrosine protein kinase receptor ret; Proto-oncogene c-Ret; Proto-oncogene tyrosine-protein kinase receptor ret; PTC; RET; RET ELE1; Ret Proto oncogene; RET transforming sequence; RET_HUMAN; RET51; RET9; tyrosine-protein kinase receptor ret; anti-Ret antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Ret (Tyr1096) Antibody detects endogenous levels of Ret only when phosphorylated at Tyr1096.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Ret antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Ret around the phosphorylation site of Tyr1096.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Autophosphorylated on C-terminal tyrosine residues upon ligand stimulation. Dephosphorylated by PTPRJ on Tyr-905, Tyr-1015 and Tyr-1062. Proteolytically cleaved by caspase-3. The soluble RET kinase fragment is able to induce cell death. The extracellular cell-membrane anchored RET cadherin fragment accelerates cell adhesion in sympathetic neurons.

Subunit Structure	Phosphorylated form interacts with the PBT domain of DOK2, DOK4 and DOK5 (By similarity). The phosphorylated form interacts with PLCG1 and GRB7 (By similarity). Interacts (not phosphorylated) with PTK2/FAK1 (via FERM domain). Extracellular cell-membrane anchored RET cadherin fragments form complex in neurons with reduced trophic status, preferentially at the contact sites between somas. Interacts with AIP in the pituitary gland; this interaction prevents the formation of the AIP-survivin complex. Binds to ARTN (By similarity). Interacts (inactive) with CBLC and CD2AP; dissociates upon activation by GDNF which increases CBLC:CD2AP interaction. Interacts (via the extracellular domain) with GFRAL (via the extracellular domain); the interaction mediates cellular signaling upon interaction of GFRAL with its ligand GDF15. Interaction with GFRAL requires previous GDF15-binding to GFRAL. Interacts with GFRA1; in the presence of SORL1, the GFRA1/RET complex is targeted to endosomes. Interacts with GDNF.
Similarity	Belongs to the protein kinase superfamily. Tyr protein kinase family.
Subcellular 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.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



Application Data

At 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Red), diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/200 staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of Ret (Phospho-Tyr1096) using EGF treated HepG2 whole cell lysates. -/+ means absence or presence of N peptide¼non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)

Western blot analysis of extracts from various samples, using Phospho-Ret (Tyr1096) Antibody.Lane 1: PC12(H2O2 treatment), blocked with antigen-specific peptides,Lane 2: PC12(H2O2 treatment),Lane 3: Hela cells(lps treatment).

ADDITIONAL INFORMATION

Related Product Information for anti-Ret antibody	<p>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. Isoform 1 in complex with GFRAL induces higher activation of MAPK-signaling pathway than isoform 2 in complex with GFRAL.</p>
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10862701
NCBI GeneID	5979
NCBI Accession #	NP_065681.1
NCBI GenBank Nucleotide #	NM_020630.4
UniProt Accession #	P07949 ; Q15250 ; Q9BTB0 ; Q9H4A2 ; A8K6Z2
Molecular Weight	124,319 Da
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
NCBI Protein Information	proto-oncogene tyrosine-protein kinase receptor Ret; proto-oncogene c-Ret; receptor tyrosine kinase; RET transforming sequence; cadherin family member 12; hydroxyaryl-protein kinase; cadherin-related family member 16; ret proto-oncogene (multiple endocrin
UniProt Protein Name	Proto-oncogene tyrosine-protein kinase receptor Ret
UniProt Gene Name	RET
UniProt Synonym Gene Names	CDHF12; CDHR16; PTC; RET51
UniProt Entry Name	RET_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ret-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-peptide-elisa-elisa/31389>