**BACKGROUND**

The Ret proto-oncogene is structurally related to the growing family of tyrosine kinase transmembrane receptors and is involved in GDNF signaling. By alternative splicing, two isoforms of the Ret proto-oncogene product are generated. The isoforms differ from each other by having either 9 or 51 carboxy terminal amino acids. The Ret gene products include two glycosylated proteins in tunicamycin treated cells, a non-glycosylated protein consistent with the predicted Ret molecular weight based on sequence analysis. Tumor-specific rearrangements of the Ret proto-oncogene have been identified in papillary thyroid carcinomas leading to the formation of different transforming fusion proteins sharing the tyrosine kinase domain of Ret. In contrast to the Ret proto-oncogene, the rearranged forms are constitutively phosphorylated on tyrosine and are translocated from the membrane to the cytoplasm.

**CHROMOSOMAL LOCATION**

Genetic locus: RET (human) mapping to 10q11.21; Ret (mouse) mapping to 6F1.

**SOURCE**

Ret (C-19) is available as either rabbit (sc-167) or goat (sc-167-G) affinity purified polyclonal antibody raised against a peptide mapping at the C-terminus of Ret isoform C of human origin.

**PRODUCT**

Each vial contains either 100 µg (sc-167) or 200 µg (sc-167-G) IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Ret (C-19) is available conjugated to agarose (sc-167 AC), 500 µg/0.25 ml agarose in 1 ml, for IP.

Blocking peptide available for competition studies, sc-167 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

Ret (C-19) is recommended for detection of Ret isoform C and, to a lesser extent, Ret isoform A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Ret (C-19) is also recommended for detection of Ret isoform C and, to a lesser extent, Ret isoform A in additional species, including bovine and avian.


Molecular Weight of Ret precursor: 150 kDa.

Molecular Weight of mature Ret: 170 kDa.

Positive Controls: TT whole cell lysate; sc-364195.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

Try Ret (C-3): sc-365943 or Ret (BD10C9): sc-101422, our highly recommended monoclonal alternatives to Ret (C-19). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see Ret (C-3): sc-365943.