Ret (C-3): sc-365943

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 and, 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.

SOURCE
Ret (C-3) is a mouse monoclonal antibody raised against amino acids 31-330 mapping near the N-terminus of a region conserved between Ret isoforms A and C of human origin.

PRODUCT
Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Ret (C-3) is available conjugated to agarose (sc-365943 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365943 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerynthrin (sc-365943 PE), fluorescein (sc-365943 FITC), Alexa Fluor® 488 (sc-365943 AF488), Alexa Fluor® 546 (sc-365943 AF546), Alexa Fluor® 594 (sc-365943 AF594) or Alexa Fluor® 647 (sc-365943 AF647), 200 µg/ml, for WB (RBG), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-365943 AF680) or Alexa Fluor® 790 (sc-365943 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

APPLICATIONS
Ret (C-3) is recommended for detection of Ret isoforms A and C of human origin by Western Blotting (starting dilution 1:100, 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), immunochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Ret siRNA (h): sc-36404, Ret shRNA Plasmid (h): sc-36404-SH and Ret shRNA (h) Lentiviral Particles: sc-36404-V.

Molecular Weight of Ret precursor: 150 kDa.
Molecular Weight of mature Ret: 170 kDa.
Positive Controls: TT whole cell lysate: sc-364195 or Ret (h): 293T Lysate: sc-158925.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:

DATA

SELECT PRODUCT CITATIONS

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

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