

PTER (G-13): sc-107075

BACKGROUND

PTER (phosphotriesterase related), also known as RPR-1, is a 349 amino acid protein that is highly expressed in kidney and, using zinc as a cofactor, is thought to play a role in maintaining kidney function. The gene encoding PTER maps to human chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie-Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PTER (human) mapping to 10p13; Pter (mouse) mapping to 2 A1.

SOURCE

PTER (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PTER of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-107075 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PTER (G-13) is recommended for detection of PTER of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PTER (G-13) is also recommended for detection of PTER in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PTER siRNA (h): sc-90527, PTER siRNA (m): sc-152577, PTER shRNA Plasmid (h): sc-90527-SH, PTER shRNA Plasmid (m): sc-152577-SH, PTER shRNA (h) Lentiviral Particles: sc-90527-V and PTER shRNA (m) Lentiviral Particles: sc-152577-V.

Molecular Weight of PTER: 39 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.