

PRRT3 (G-17): sc-99604

BACKGROUND

PRRT3 (proline-rich transmembrane protein 3) is a 981 amino acid multi-pass membrane protein that is post-translationally modified at multiple serine residues and N-glycosylated. PRRT3 is alternatively spliced into three isoforms and is encoded by a gene that maps to human chromosome 3. Chromosome 3 houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRRT3 (human) mapping to 3p25.3, Prrt3 (mouse) mapping to 6 E3.

SOURCE

PRRT3 (G-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of PRRT3 of human origin.

STORAGE

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

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-99604 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PRRT3 (G-17) is recommended for detection of PRRT3 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with PRRT3-2.

PRRT3 (G-17) is also recommended for detection of PRRT3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PRRT3 siRNA (h): sc-78260, PRRT3 siRNA (m): sc-152522, PRRT3 shRNA Plasmid (h): sc-78260-SH, PRRT3 shRNA Plasmid (m): sc-152522-SH, PRRT3 shRNA (h) Lentiviral Particles: sc-78260-V and PRRT3 shRNA (m) Lentiviral Particles: sc-152522-V.

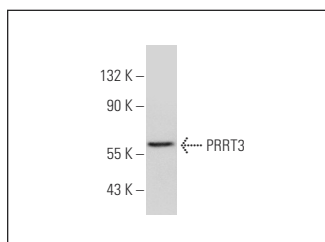
Molecular Weight of PRRT3 isoforms: 102/62/44 kDa.

Positive Controls: Human small intestine extract: sc-364225.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



PRRT3 (G-17): sc-99604. Western blot analysis of PRRT3 expression in human small intestine tissue extract.

RESEARCH USE

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