

PRRG4 (S-12): sc-138551

BACKGROUND

Proline-rich proteins are often involved in protein-protein interactions and typically act as ligands for SH3, WW and EVH1 domains. PRRG4 (proline-rich γ -carboxyglutamic acid protein 4), also known as TMG4 (transmembrane γ -carboxyglutamic acid protein 4), is a 226 amino acid single-pass type I membrane protein that contains one Gla (γ -carboxy-glutamate) domain. Expressed in placenta, pancreas, kidney, lung and liver, PRRG4 is encoded by a gene that maps to human chromosome 11p13. Chromosome 11 houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRRG4 (human) mapping to 11p13; Prrg4 (mouse) mapping to 2 E2.

SOURCE

PRRG4 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of PRRG4 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-138551 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PRRG4 (S-12) is recommended for detection of PRRG4 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); non cross-reactive with other PRRG family members.

PRRG4 (S-12) is also recommended for detection of PRRG4 in additional species, including canine and porcine.

Suitable for use as control antibody for PRRG4 siRNA (h): sc-96698, PRRG4 siRNA (m): sc-152519, PRRG4 shRNA Plasmid (h): sc-96698-SH, PRRG4 shRNA Plasmid (m): sc-152519-SH, PRRG4 shRNA (h) Lentiviral Particles: sc-96698-V and PRRG4 shRNA (m) Lentiviral Particles: sc-152519-V.

Molecular Weight of PRRG4: 25 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.