

## PRRT2 (P-13): sc-161170

### BACKGROUND

PRRT2 (proline-rich transmembrane protein 2) is a 340 amino acid multi-pass membrane protein belonging to the CD225 family. Existing as three alternatively spliced isoforms, the gene encoding PRRT2 maps to human chromosome 16p11.2 and mouse chromosome 7 F3. Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome, characterized by mental retardation and predisposition to tumor growth and white blood cell neoplasias, and Crohn's disease, a gastrointestinal inflammatory condition, are also associated with chromosome 16.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: PRRT2 (human) mapping to 16p11.2; Prrt2 (mouse) mapping to 7 F3.

### SOURCE

PRRT2 (P-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of PRRT2 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-161170 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

PRRT2 (P-13) is recommended for detection of PRRT2 of mouse 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 PRRT1 or PRRT3.

Suitable for use as control antibody for PRRT2 siRNA (h): sc-93160, PRRT2 siRNA (m): sc-152521, PRRT2 shRNA Plasmid (h): sc-93160-SH, PRRT2 shRNA Plasmid (m): sc-152521-SH, PRRT2 shRNA (h) Lentiviral Particles: sc-93160-V and PRRT2 shRNA (m) Lentiviral Particles: sc-152521-V.

Molecular Weight of PRRT2 isoforms: 35/40/31 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.

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.