SANTA CRUZ BIOTECHNOLOGY, INC.

PRR19 (T-16): sc-139030

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

PRR19 (proline rich 19) is a 356 amino acid protein. Existing as two alternatively spliced isoforms, the PRR19 gene is conserved in chimpanzee, canine, bovine, mouse and rat, and maps to human chromosome 19q13.2. Consisting of around 63 million bases with over 1,400 genes, chromosome 19 makes up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fcα receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19. Translocations with chromosome 19 and chromosome 14 can be seen in some lymphoproliferative disorders and typically involve the proto-oncogene BCL3.

CHROMOSOMAL LOCATION

Genetic locus: PRR19 (human) mapping to 19q13.2; Prr19 (mouse) mapping to 7 A3.

SOURCE

PRR19 (T-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of PRR19 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139030 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PRR19 (T-16) is recommended for detection of PRR19 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other PRR family members.

PRR19 (T-16) is also recommended for detection of PRR19 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PRR19 siRNA (h): sc-97213, PRR19 siRNA (m): sc-152511, PRR19 shRNA Plasmid (h): sc-97213-SH, PRR19 shRNA Plasmid (m): sc-152511-SH, PRR19 shRNA (h) Lentiviral Particles: sc-97213-V and PRR19 shRNA (m) Lentiviral Particles: sc-152511-V.

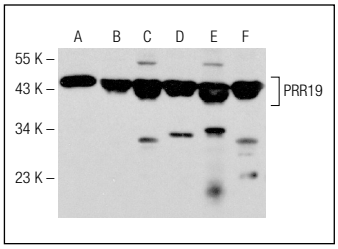
Molecular Weight of PRR19: 39 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, Sol8 cell lysate: sc-2249 or L8 cell lysate: sc-3807.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PRR19 (T-16): sc-139030. Western blot analysis of PRR19 expression in 293T (**A**), Hep G2 (**B**), Sol8 (**C**), L8 (**D**) and LADMAC (**E**) whole cell lysates and mouse skeletal muscle tissue extract (**F**).

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.