

PRR5 (h): 293T Lysate: sc-112138

BACKGROUND

Proline-rich proteins are often involved in protein-protein interactions and typically act as ligands for SH3, WW and EVH1 domains. PRR5 (proline-rich protein 5), also known as protein observed with Rictor-1 (Protor-1), is a 388 amino acid protein that is a subunit of mammalian target of Rapamycin complex 2 (mTORC2), a multimeric kinase that is involved in the regulation of the actin cytoskeleton and phosphorylates Akt1, SGK and PKC α . Other proteins that make up mTORC2 include Rictor, MAPKAP-1, FRAP and LST8. PRR5 plays an important role in the modulation of platelet-derived growth factor signaling and in the regulation of PDGFR- β expression. Since the gene encoding PRR5 is located in a region that frequently undergoes loss of heterozygosity in breast cancer, it is likely that PRR5 is a tumor suppressor. There are four isoforms of PRR5 that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRR5 (human) mapping to 22q13.31.

PRODUCT

PRR5 (h): 293T Lysate represents a lysate of human PRR5 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

PRR5 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive PRR5 antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

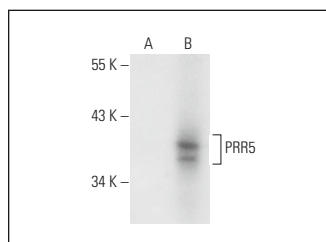
PRR5 (A-7): sc-390469 is recommended as a positive control antibody for Western Blot analysis of enhanced human PRR5 expression in PRR5 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



PRR5 (A-7): sc-390469. Western blot analysis of PRR5 expression in non-transfected: sc-117752 (A) and human PRR5 transfected: sc-112138 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.