SANTA CRUZ BIOTECHNOLOGY, INC.

PRIP (39-Q): sc-101129

SANTA CRUZ BIOTECHNOLOGY
The Power to Question

BACKGROUND

The nuclear receptor coactivator PRIP (peroxisome proliferator-activated receptor-interacting protein) interacts with members of the steroid hormone and thyroid hormone/retinoid receptor subfamilies in a ligand-dependent or ligand-enhanced manner. Specifically, PRIP binds PPARγ, PPARα, RARα, RXRα, ER and TRβ1 and potentiates both PPARγ- and RXRα-induced transcription in mammalian cells. The 12 carboxy-terminal amino acids of PPARγ are essential to the interaction between PPARγ and PRIP. A truncated form of PRIP (amino acids 786-1132) acts as a dominant-negative repressor. The PRIP-nuclear receptor interaction occurs through an amino-terminal LXXLL motif (amino acid residues 892 to 896) on PRIP. The function of PRIPβ second LXXLL motif (amino acid residues 1496 to 1500) is unknown; however, the PRIPβ C-terminus may function as an inhibitory domain and regulate the transcriptional activity of the protein. The human PRIP gene maps to chromosome 20q11.22 and encodes a widely expressed protein that has highest expression in reproductive organs (testis, prostate and ovary) and brain. An increase in PRIP expression is present in all breast cancer cell lines and also in some breast cancer tissue.

REFERENCES

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2. Lee, S.K., Anzick, S.L., Choi, J.E., Bubendorf, L., Guan, X.Y., Jung, Y.K., Kallioniemi, O.P., Kononen, J., Trent, J.M., Azorsa, D., Jhun, B.H., Cheong, J.H., Lee, Y.C., Meltzer, P.S. and Lee, J.W. 1999. A nuclear factor, ASC-2, as a cancer-amplified transcriptional coactivator essential for ligand-dependent transactivation by nuclear receptors *in vivo*. J. Biol. Chem. 274: 34283-34293.
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4. Zhu, Y., Kan, L., Qi, C., Kanwar, Y.S., Yeldandi, A.V., Rao, M.S. and Reddy, J.K. 2000. Isolation and characterization of peroxisome proliferator-activated receptor (PPAR) interacting protein (PRIP) as a coactivator for PPAR. J. Biol. Chem. 275: 13510-13516.
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CHROMOSOMAL LOCATION

Genetic locus: NCOA6 (human) mapping to 20q11.22.

SOURCE

PRIP (39-Q) is a mouse monoclonal antibody raised against recombinant PRIP of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

PRIP (39-Q) is recommended for detection of PRIP of 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).

Suitable for use as control antibody for PRIP siRNA (h): sc-61401, PRIP shRNA Plasmid (h): sc-61401-SH and PRIP shRNA (h) Lentiviral Particles: sc-61401-V.

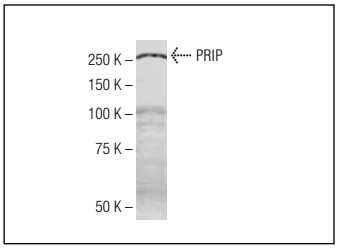
Molecular Weight of PRIP: 250 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

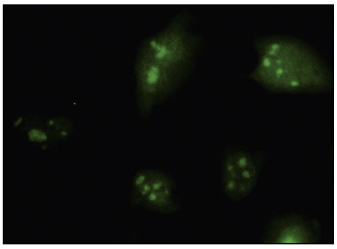
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



PRIP (39-Q): sc-101129. Western blot analysis of PRIP expression in HeLa nuclear extract.



PRIP (39-Q): sc-101129. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nuclear localization.

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 for detailed protocols and support products.