SANTA CRUZ BIOTECHNOLOGY, INC.

PRAM-1 (D-11): sc-166267

The Power to Question

BACKGROUND

Complete remission of acute promyelocytic leukemia can be achieved by treating patients with retinoic acid, and PML-RAR-α (promyelocytic leukemia-retinoic acid receptor α fusion protein) plays a major role in mediating retinoic acid effects in leukemia cells. The retinoic acid-induced gene, PRAM-1 (PML-RAR-α target gene encoding an adaptor molecule 1) encodes an adaptor protein which is expressed and modulated during normal human myelopoiesis. PRAM-1 expression is hindered by expression of PML-RAR-α. The 718 amino acid PRAM-1 protein contains eight N-terminal proline-rich repeats and several proline residues that are clustered as type I or type II SH3 recognition motifs. PRAM-1 demonstrates expression in hematopoietic tissues and lung.

REFERENCES

1. Moog-Lutz, C., et al. 2001. PRAM-1 is a novel adaptor protein regulated by retinoic acid (RA) and promyelocytic leukemia (PML)-RA receptor α in acute promyelocytic leukemia cells. J. Biol. Chem. 276: 22375-22381.
2. Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 606466. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
3. Clemens, R.A., et al. 2004. PRAM-1 is required for optimal integrin-dependent neutrophil function. Mol. Cell. Biol. 24: 10923-10932.
4. Denis, F.M., et al. 2005. PRAM-1 potentiates arsenic trioxide-induced JNK activation. J. Biol. Chem. 280: 9043-9048.

CHROMOSOMAL LOCATION

Genetic locus: PRAM1 (human) mapping to 19p13.2; Pram1 (mouse) mapping to 17 B1.

SOURCE

PRAM-1 (D-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 321-348 within an internal region of PRAM-1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PRAM-1 (D-11) is available conjugated to agarose (sc-166267 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166267 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166267 PE), fluorescein (sc-166267 FITC), Alexa Fluor® 488 (sc-166267 AF488), Alexa Fluor® 546 (sc-166267 AF546), Alexa Fluor® 594 (sc-166267 AF594) or Alexa Fluor® 647 (sc-166267 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166267 AF680) or Alexa Fluor® 790 (sc-166267 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-166267 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

PRAM-1 (D-11) is recommended for detection of PRAM-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 PRAM-1 siRNA (h): sc-61393, PRAM-1 siRNA (m): sc-61394, PRAM-1 shRNA Plasmid (h): sc-61393-SH, PRAM-1 shRNA Plasmid (m): sc-61394-SH, PRAM-1 shRNA (h) Lentiviral Particles: sc-61393-V and PRAM-1 shRNA (m) Lentiviral Particles: sc-61394-V.

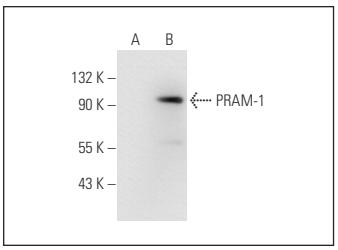
Molecular Weight of PRAM-1: 97 kDa.

Positive Controls: PRAM-1 (h): 293T Lysate: sc-114643.

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, UltraCruz® Blocking Reagent: sc-516214 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



PRAM-1 (D-11): sc-166267. Western blot analysis of PRAM-1 expression in non-transfected: sc-117752 (**A**) and human PRAM-1 transfected: sc-114643 (**B**) 293T whole cell lysates.

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.