

# PRAM-1 (K-20): sc-48652

## BACKGROUND

Complete remission of acute promyelocytic leukemia can be achieved by treating patients with retinoic acid, and PML-RAR- $\alpha$  (promyelocytic leukemia-retinoic acid receptor  $\alpha$  fusion protein) plays a major role in mediating retinoic acid effects in leukemia cells. The retinoic acid-induced gene, PRAM-1 (PML-RAR- $\alpha$  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- $\alpha$ . 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, and immunoblot analysis shows expression of a 97 kDa protein.

## REFERENCES

- Moog-Lutz, C., et al. 2001. PRAM-1 is a novel adaptor protein regulated by retinoic acid (RA) and promyelocytic leukemia PML-RA receptor  $\alpha$  in acute promyelocytic leukemia cells. *J. Biol. Chem.* 276: 22375-22381.
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- Clemens, R.A. et al. 2004. PRAM-1 is required for optimal integrin-dependent neutrophil function. *Mol. Cell. Biol.* 24: 10923-10932.
- Denis, F.M. et al. 2005. PRAM-1 potentiates arsenic trioxide-induced JNK activation. *J. Biol. Chem.* 280: 9043-9048.
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- Ghaffari, S.H. et al. 2006. Real-time PCR analysis of PML-RAR $\alpha$  in newly diagnosed acute promyelocytic leukaemia patients treated with arsenic trioxide as a front-line therapy. *Ann. Oncol.* 17: 1553-1559.

## CHROMOSOMAL LOCATION

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

## SOURCE

PRAM-1 (K-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PRAM-1 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  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-48652 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

PRAM-1 (K-20) is recommended for detection of PRAM-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

PRAM-1 (K-20) is also recommended for detection of PRAM-1 in additional species, including porcine.

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.

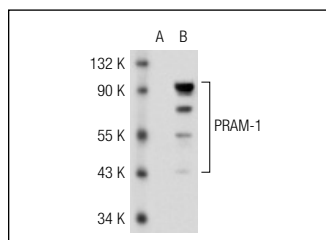
Molecular Weight of PRAM-1: 97 kDa.

Positive Controls: PRAM-1 (h): 293T Lysate: sc-114643 or PRAM-1 (h3): 293T Lysate: sc-159247.

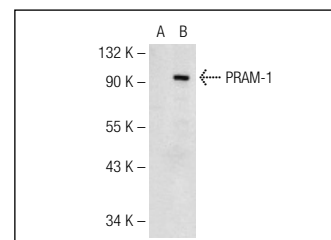
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



PRAM-1 (K-20): sc-48652. 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.



PRAM-1 (K-20): sc-48652. Western blot analysis of PRAM-1 expression in non-transfected: sc-117752 (A) and human PRAM-1 transfected: sc-159247 (B) 293T whole cell lysates.

## RESEARCH USE

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