SANTA CRUZ BIOTECHNOLOGY, INC.

# PRDM12 (Y-16): sc-132048

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## BACKGROUND

The PR-domain containing proteins (PRDMs) have a common involvment in the modulation of gene activities. PRDM1, previously designated Blimp1, is a transcriptional repressor expressed during the late stages of B cell differentiation in immunoglobulin-secreting plasma cells, as well as in long-lived, bone marrow plasma cells. PRDM3, or myelodysplasia syndrome protein 1 (MDS1), is a transcription factor associated with myeloid leukemia. Originally identified as SC-1, PRDM4 is predominantly found in the cytoplasm, but translocates into the nucleus upon serum-starvation. PRDM5, PRDM8 and PRDM10 may function as transcription factors. PRDM12 may represent a tumor suppressor involved in chronic myeloid leukemia (CML).

## CHROMOSOMAL LOCATION

Genetic locus: PRDM12 (human) mapping to 9q34.12; Prdm12 (mouse) mapping to 2 B.

## SOURCE

PRDM12 (Y-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PRDM12 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132048 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

PRDM12 (Y-16) is recommended for detection of PRDM12 of mouse, rat and 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); non cross-reactive with other PRDM family members.

PRDM12 (Y-16) is also recommended for detection of PRDM12 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for PRDM12 siRNA (h): sc-72133, PRDM12 siRNA (m): sc-152446, PRDM12 shRNA Plasmid (h): sc-72133-SH, PRDM12 shRNA Plasmid (m): sc-152446-SH, PRDM12 shRNA (h) Lentiviral Particles: sc-72133-V and PRDM12 shRNA (m) Lentiviral Particles: sc-152446-V.

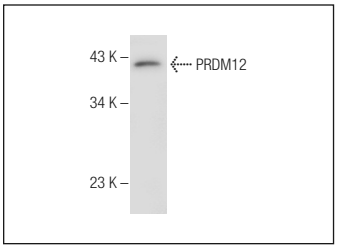
Molecular Weight of PRDM12: 40 kDa.

Positive Controls: Hep G2 nuclear extract: sc-364819, Hep G2 cell lysate: sc-2227 or A549 cell lysate: sc-2413.

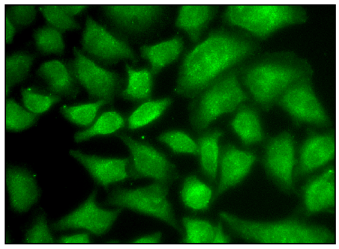
## RECOMMENDED SECONDARY REAGENTS

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




PRDM12 (Y-16): sc-132048. Western blot analysis of PRDM12 expression in A549 whole cell lysate.



PRDM12 (Y-16): sc-132048. Immunofluorescence staining of formalin-fixed HeLa cells showing nuclear and cytoplasmic localization. Kindly provided by Yang Xiang, Ph.D., Division of Newborn Medicine, Boston Children's Hospital, Cell Biology Department, Harvard Medical School.

## 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.

MONOS Satisfaction Guaranteed

Try **PRDM12 (49AT1111.91.20): sc-130242**, our highly recommended monoclonal alternative to PRDM12 (Y-16).