## SANTA CRUZ BIOTECHNOLOGY, INC.

# PRDM13 (L-12): sc-107964



#### BACKGROUND

The PR-domain containing proteins (PRDMs) have a common involvement in the modulation of gene activities. A PR-domain family member usually produces two products, called PR-plus and PR-minus, which differ by the presence or absence of the PR domain, respectively. The PR-plus product is underexpressed or disrupted in cancer cells, whereas the PR-minus product is present or over-expressed in cancer cells. This imbalance in the amount of the two products, which is a result of either genetic or epigenetic events, appears to be a determining factor of malignancy. PRDM13 (PR domain-containing protein 13), also known as PFM10, is a 717 amino acid protein belonging to the PRDM family. Localizing to the nucleus and believed to participate in transcriptional regulation, PRDM13 contains four  $C_2H_2$ -type zinc fingers and one SET domain. In addition, PRDM13 may function as a tumor suppressor.

## REFERENCES

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- 2. Huang, S. 1999. The retinoblastoma protein-interacting zinc finger gene RIZ in 1p36-linked cancers. Front Biosci. 4: D528-D532.
- Jiang, G.L., et al. 2000. The yin-yang of PR-domain family genes in tumorigenesis. Histol. Histopathol. 15: 109-117.
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- 7. Wilm, T.P., et al. 2004. Essential roles of a zebrafish prdm1/blim organogenesis. Development 132: 393-404.
- 8. Fitzgerald, J., et al. 2004. Why mice have lost genes for COL21A1, STK17A, GPR145 and AHRI: evidence for gene deletion at evolutionary breakpoints in the rodent lineage. Trends Genet. 20: 408-412.

#### CHROMOSOMAL LOCATION

Genetic locus: PRDM13 (human) mapping to 6q16.2; Prdm13 (mouse) mapping to 4 A3.

#### SOURCE

PRDM13 (L-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of PRDM13 of human origin.

## **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107964 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

PRDM13 (L-12) is recommended for detection of PRDM13 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

PRDM13 (L-12) is also recommended for detection of PRDM13 in additional species, including porcine.

Suitable for use as control antibody for PRDM13 siRNA (h): sc-95476, PRDM13 siRNA (m): sc-152447, PRDM13 shRNA Plasmid (h): sc-95476-SH, PRDM13 shRNA Plasmid (m): sc-152447-SH, PRDM13 shRNA (h) Lentiviral Particles: sc-95476-V and PRDM13 shRNA (m) Lentiviral Particles: sc-152447-V.

Molecular Weight of PRDM13: 75 kDa.

## **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) Immunofluo-rescence: use donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **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.