

# PRDM8 (H-125): sc-99131

## BACKGROUND

Usually, two products are produced from a PR-domain family member; these products differ by the presence or absence of the PR-domain. The PR-plus product is underexpressed or disrupted, whereas the PR-minus product is present or overexpressed 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 cause of malignancy. PRDM8 in particular is thought to be involved in transcriptional regulation. PRDM8 is localized in the nucleus; research indicates that it contains three C<sub>2</sub>H<sub>2</sub>-type zinc fingers and one SET domain.

## REFERENCES

1. Liu, L., Shao, G., Steele-Perkins, G. and Huang, S. 1997. The retinoblastoma interacting zinc finger gene RIZ produces a PR domain-lacking product through an internal promoter. *J. Biol. Chem.* 272: 2984-2991.
2. Jiang, G.L. and Huang, S. 2000. The yin-yang of PR-domain family genes in tumorigenesis. *Histol. Histopathol.* 15: 109-117.
3. Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., et al. 2002. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc. Natl. Acad. Sci. USA* 99: 16899-16903.

## CHROMOSOMAL LOCATION

Genetic locus: PRDM8 (human) mapping to 4q21.21; Prdm8 (mouse) mapping to 5 E3.

## SOURCE

PRDM8 (H-125) is a rabbit polyclonal antibody raised against amino acids 1-125 mapping at the N-terminus of PRDM8 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-99131 X, 200 µg/0.1 ml.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

## APPLICATIONS

PRDM8 (H-125) is recommended for detection of PRDM8 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).

PRDM8 (H-125) is also recommended for detection of PRDM8 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for PRDM8 siRNA (h): sc-61399, PRDM8 siRNA (m): sc-61400, PRDM8 shRNA Plasmid (h): sc-61399-SH, PRDM8 shRNA Plasmid (m): sc-61400-SH, PRDM8 shRNA (h) Lentiviral Particles: sc-61399-V and PRDM8 shRNA (m) Lentiviral Particles: sc-61400-V.

PRDM8 (H-125) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PRDM8: 72 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.


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Try **PRDM8 (E-3): sc-390001**, our highly recommended monoclonal alternative to PRDM8 (H-125).