

PRDM8 (C-16): sc-48276

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. Its subcellular location is the nucleus and research indicates that PRDM8 contains three C2H2-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; Prdm8 (mouse) mapping to 5 E3.

SOURCE

PRDM8 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region 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.

Blocking peptide available for competition studies, sc-48276 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-48276 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

PRDM8 (C-16) is recommended for detection of PRDM8 of mouse 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), immunohistochemistry (including paraffin-embedded sections) (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 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 (C-16) 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 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) 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.

RESEARCH USE

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



Try **PRDM8 (E-3): sc-390001**, our highly recommended monoclonal alternative to PRDM8 (C-16).