

PRDM5 (H-300): sc-98881

BACKGROUND

A cDNA of PRDM5 was isolated based upon its homology to the PR domain of PRDM2. The gene encodes an open reading frame of 630 amino acids and contains a PR domain in the NH-terminal region followed by 16 zinc finger motifs. Through radiation hybrid analysis, PRDM5 was mapped to human chromosome 4q27, a region thought to contain tumor suppressor genes for ovarian, breast, lung, liver, colon, and other cancers. The gene has a CpG island promoter and is silenced in human breast, ovarian, and liver cancers. Upon infection of tumor cells, a recombinant adenovirus expressing PRDM5 causes G₂/M arrest and apoptosis, suggesting that inhibition of PRDM5 may be involved in carcinogenesis.

CHROMOSOMAL LOCATION

Genetic locus: PRDM5 (human) mapping to 4q27; Prdm5 (mouse) mapping to 6 C1.

SOURCE

PRDM5 (H-300) is a rabbit polyclonal antibody raised against amino acids 53-175 mapping at the N-terminus of PRDM5 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-98881 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.

APPLICATIONS

PRDM5 (H-300) is recommended for detection of PRDM5 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).

PRDM5 (H-300) is also recommended for detection of PRDM5 in additional species, including canine and bovine.

Suitable for use as control antibody for PRDM5 siRNA (h): sc-61397, PRDM5 siRNA (m): sc-61398, PRDM5 shRNA Plasmid (h): sc-61397-SH, PRDM5 shRNA Plasmid (m): sc-61398-SH, PRDM5 shRNA (h) Lentiviral Particles: sc-61397-V and PRDM5 shRNA (m) Lentiviral Particles: sc-61398-V.

PRDM5 (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

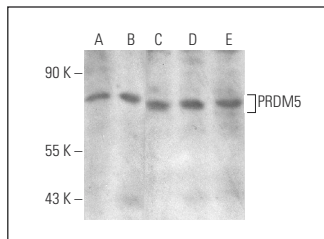
Molecular Weight of PRDM5: 70 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, SW480 cell lysate: sc-2219 or HuT 78 whole cell lysate: sc-2208.

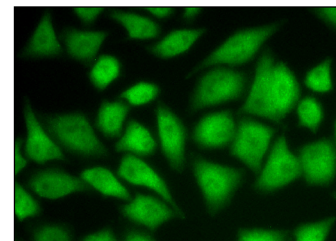
RECOMMENDED SECONDARY REAGENTS

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.

DATA



PRDM5 (H-300): sc-98881. Western blot analysis of PRDM5 expression in NIH/3T3 (A), SW480 (B), HuT 78 (C), OV-90 (D) and MDA-MB-231 (E) whole cell lysates.



PRDM5 (H-300): sc-98881. 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 **PRDM5 (A-12): sc-376277**, our highly recommended monoclonal alternative to PRDM5 (H-300).