

PRDM5 (C-12): sc-48653

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 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-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.

Blocking peptide available for competition studies, sc-48653 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-48653 X, 200 µg/0.1 ml.

APPLICATIONS

PRDM5 (C-12) is recommended for detection of PRDM5 of mouse 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), 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).

PRDM5 (C-12) is also recommended for detection of PRDM5 in additional species, including equine, canine, bovine and porcine.

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 (C-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

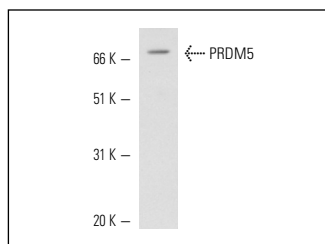
Molecular Weight of PRDM5: 70 kDa.

Positive Controls: NIH/3T3 nuclear extract: sc-2138, SW480 cell lysate: sc-2219 or HL-60 whole cell lysate: sc-2209.

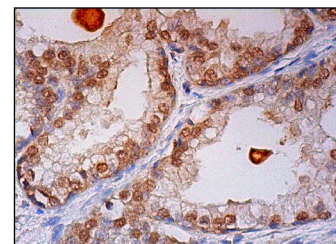
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



PRDM5 (C-12): sc-48653. Western blot analysis of PRDM5 expression in NIH/3T3 nuclear extract.



PRDM5 (C-12): sc-48653. Immunoperoxidase staining of formalin fixed, paraffin-embedded human prostate tissue showing nuclear staining of glandular cells.

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 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 (C-12).