

PRMT2 (H-95): sc-135010

BACKGROUND

PRMT2 (protein arginine N-methyltransferase 2) is a 433 amino acid protein encoded by the human gene PRMT2. PRMT2 belongs to the protein arginine N-methyltransferase family and contains one SH3 domain. The primary function of protein methyltransferases is the posttranslational methylation of arginine residues. The PRMT family of proteins contains related putative methyltransferase domains that modify chromatin and regulate cellular transcription. Some family members, PRMT1 and PRMT4, show transcriptional modulation and intracellular signaling. Through a highly conserved S-adenosylmethionine-binding domain, PRMT2 inhibits NF κ B-dependent transcription and promotes apoptosis. PRMT2 has this effect by blocking nuclear export of I κ B α through a leptomycin-sensitive pathway, which increases nuclear I κ B α and decreases NF κ B DNA binding. PRMT2 also renders cells susceptible to apoptosis by cytokines or cytotoxic drugs.

CHROMOSOMAL LOCATION

Genetic locus: PRMT2 (human) mapping to 21q22.3; Prmt2 (mouse) mapping to 10 C1.

SOURCE

PRMT2 (H-95) is a rabbit polyclonal antibody raised against amino acids 221-315 mapping within an internal region of PRMT2 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

PRMT2 (H-95) is recommended for detection of PRMT2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

PRMT2 (H-95) is also recommended for detection of PRMT2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for PRMT2 siRNA (h): sc-62860, PRMT2 siRNA (m): sc-62861, PRMT2 shRNA Plasmid (h): sc-62860-SH, PRMT2 shRNA Plasmid (m): sc-62861-SH, PRMT2 shRNA (h) Lentiviral Particles: sc-62860-V and PRMT2 shRNA (m) Lentiviral Particles: sc-62861-V.

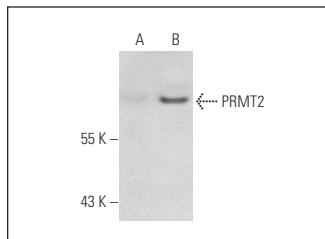
Molecular Weight of PRMT2: 55 kDa.

Positive Controls: HeLa nuclear extract: sc-2120 or PRMT2 (h): 293T Lysate: sc-172533.

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



PRMT2 (H-95): sc-135010. Western blot analysis of PRMT2 expression in non-transfected: sc-117752 (A) and human PRMT2 transfected: sc-172533 (B) whole cell lysates.

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.



Try **PRMT2 (B-11): sc-393254** or **PRMT2 (E-12): sc-390089**, our highly recommended monoclonal alternatives to PRMT2 (H-95).