**PRMT5 (A-11): sc-376937**

**BACKGROUND**

The formation of the spliceosome includes the assembly of SnRnas. This process is mediated by the survival of a motor neuron (SMN) protein and is enhanced by modification of specific arginine residues in the Sm proteins to symmetrical dimethylarginines (sDMas). sDMA modification of Sm proteins is catalyzed by the methylosome, a complex comprised of the type II methyltransferase PRMT5, also designated JAK-binding protein 1, (JBPl), p13n, and two novel factors. PRMT5 binds the Sm proteins via their arginine- and Glycine-rich (RG) domains, while pICln binds the Sm domains. PRMT5 is a distinct member of the protein-arginine methyltransferase (PRMT) family, and predominantly localizes to the cytoplasm in a wide variety of tissues. PRMT5 also associates specifically with the transcription start site region of the cyclin E1 promoter, and, therefore, is involved in the control of transcription and proliferation. The gene encoding human PRMT5 maps to chromosome 14q11.2.

**CHROMOSOMAL LOCATION**

Genetic locus: PRMT5 (human) mapping to 14q11.2; Prmt5 (mouse) mapping to 14 C3.

**SOURCE**

PRMT5 (A-11) is a mouse monoclonal antibody raised against amino acids 338-637 mapping at the C-terminus of PRMT5 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

PRMT5 (A-11) is recommended for detection of PRMT5 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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). PRMT5 (A-11) is also recommended for detection of PRMT5 in additional species, including equine, bovine, porcine and canine.

Suitable for use as control antibody for PRMT5 siRNA (h): sc-41073, PRMT5 siRNA (m): sc-41074, PRMT5 shRNA Plasmid (h): sc-41073-SH, PRMT5 shRNA Plasmid (m): sc-41074-SH, PRMT5 shRNA (h) Lentiviral Particles: sc-41073-V and PRMT5 shRNA (m) Lentiviral Particles: sc-41074-V.

Molecular Weight of PRMT5: 72 kDa.

**STORAGE**

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

**DATA**

<table>
<thead>
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**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

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