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PRMT7 (m): 293T Lysate: sc-122782

BACKGROUND

Arginine methylation is an irreversible protein modification catalyzed by arginine methyltransferases, such as PRMT7, which uses S-adenosylmethionine (AdoMet) as the methyl donor. Arginine methylation is implicated in signal transduction, RNA transport and RNA splicing. PRMT7 has two methyltransferase domains, each containing a putative AdoMet-binding motif. The N-terminal methyltransferase domain closely resembles the catalytic core of PRMT5, and the C-terminal domain is most similar to that of PRMT1. Three PRMT7 splice variants have been identified by database analysis. PRMT7 is localized to the nucleus and cytoplasm; moderate expression is observed in adult brain and lung tissues.

REFERENCES

- Nagase, T., Kikuno, R. and Ohara, O. 2001. Prediction of the coding sequences of unidentified human genes. XXI. The complete sequences of 60 new cDNA clones from brain which code for large proteins. *DNA Res.* 8: 179-187.
- Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 610087. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Miranda, T.B., Miranda, M., Frankel, A. and Clarke, S. 2004. PRMT7 is a member of the protein arginine methyltransferase family with a distinct substrate specificity. *J. Biol. Chem.* 279: 22902-22907.
- Lee, J.H., Cook, J.R., Yang, Z.H., Mirochnitchenko, O., Gunderson, S.I., Felix, A.M., Herth, N., Hoffmann, R. and Pestka, S. 2005. PRMT7, a new protein arginine methyltransferase that synthesizes symmetric dimethyl-arginine. *J. Biol. Chem.* 280: 3656-3664.
- Miranda, T.B., Webb, K.J., Edberg, D.D., Reeves, R. and Clarke, S. 2005. Protein arginine methyltransferase 6 specifically methylates the nonhistone chromatin protein HMGA1a. *Biochem. Biophys. Res. Commun.* 336: 831-835.
- Zheng, Z., Schmidt-Ott, K.M., Chua, S., Foster, K.A., Frankel, R.Z., Pavlidis, P., Barasch, J., D'Agati, V.D. and Gharavi, A.G. 2005. A Mendelian locus on chromosome 16 determines susceptibility to doxorubicin nephropathy in the mouse. *Proc. Natl. Acad. Sci. USA* 102: 2502-2507.

CHROMOSOMAL LOCATION

Genetic locus: Prmt7 (mouse) mapping to 8 D3.

PRODUCT

PRMT7 (m): 293T Lysate represents a lysate of mouse PRMT7 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

PRMT7 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PRMT7 antibodies. Recommended use: 10-20 µl per lane.

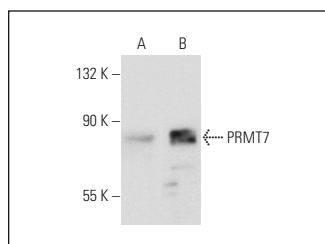
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PRMT7 (D-1): sc-166819 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse PRMT7 expression in PRMT7 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



PRMT7 (D-1): sc-166819. Western blot analysis of PRMT7 expression in non-transfected: sc-117752 (A) and mouse PRMT7 transfected: sc-122782 (B) 293T whole cell lysates.

RESEARCH USE

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