

PRMT7 (h): 293 Lysate: sc-110644

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 and moderate expression is observed in adult brain and lung tissues.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRMT7 (human) mapping to 16q22.1.

PRODUCT

PRMT7 (h): 293 Lysate represents a lysate of human PRMT7 transfected 293 cells and is provided as 100 μ g protein in 200 μ l 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.

RESEARCH USE

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

APPLICATIONS

PRMT7 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive PRMT7 antibodies. Recommended use: 10-20 μ l per lane.

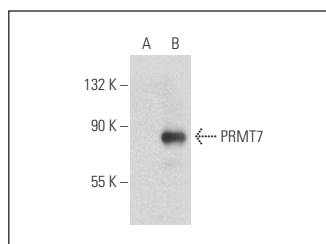
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

PRMT7 (F-2): sc-271118 is recommended as a positive control antibody for Western Blot analysis of enhanced human PRMT7 expression in PRMT7 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

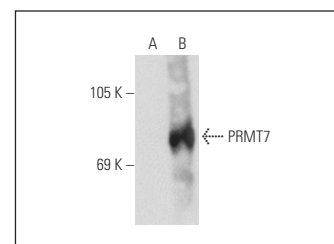
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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 (F-2): sc-271118. Western blot analysis of PRMT7 expression in non-transfected: sc-110760 (A) and human PRMT7 transfected: sc-110644 (B) 293 whole cell lysates.



PRMT7 (D-1): sc-166819. Western blot analysis of PRMT7 expression in non-transfected: sc-110760 (A) and human PRMT7 transfected: sc-110644 (B) 293 whole cell lysates.

PROTOCOLS

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