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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



PRMT8 (h2): 293 Lysate: sc-174060

BACKGROUND

A class of proteins termed type 1 protein arginine N-methyltransferase (PRMT) enzymes contribute to posttranslational modification of RNA-binding proteins, but differ in substrate specificities, oligomerization properties and subcellular localization. PRMT8, also known as HRMT1L3 or HRMT1L4 (heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 4), is a distinct member of the type 1 PRMT family with tissue-specific expression and plasma membrane localization. PRMT8 is specifically expressed in the brain where it functions as an arginine methyltransferase with a possible role in neuronal differentiation. It is most closely related to PRMT1 and may have arisen through a gene duplication. PRMT8 can heterodimerize with PRMT1 and has similar substrate preference. Distinguishing PRMT8 from other PRMT enzymes is its unique N-terminal myristoylation motif, which is responsible for its plasma membrane localization.

REFERENCES

1. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 610086. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
2. Hung, C.M. and Li, C. 2004. Identification and phylogenetic analyses of the protein arginine methyltransferase gene family in fish and ascidians. *Gene* 340: 179-187.
3. Lee, J., Sayegh, J., Daniel, J., Clarke, S. and Bedford, M.T. 2005. PRMT8, a new membrane-bound tissue-specific member of the protein arginine methyltransferase family. *J. Biol. Chem.* 280: 32890-32896.
4. Dong, C.W., Zhang, Y.B., Lu, A.J., Zhu, R., Zhang, F.T., Zhang, Q.Y. and Gui, J.F. 2007. Molecular characterisation and inductive expression of a fish protein arginine methyltransferase 1 gene in response to virus infection. *Fish Shellfish Immunol.* 22: 380-393.
5. Taneda, T., Miyata, S., Kousaka, A., Inoue, K., Koyama, Y., Mori, Y. and Tohyama, M. 2007. Specific regional distribution of protein arginine methyltransferase 8 (PRMT8) in the mouse brain. *Brain Res.* 1155: 1-9.
6. Sayegh, J., Webb, K., Cheng, D., Bedford, M.T. and Clarke, S.G. 2007. Regulation of protein arginine methyltransferase 8 (PRMT8) activity by its N-terminal domain. *J. Biol. Chem.* 282: 36444-36453.
7. Brink, T.C., Sudheer, S., Janke, D., Jagodzinska, J., Jung, M. and Adjaye, J. 2007. The origins of human embryonic stem cells: A biological conundrum. *Cells Tissues Organs* 188: 9-22.
8. Pahlich, S., Zakaryan, R.P. and Gehring, H. 2008. Identification of proteins interacting with protein arginine methyltransferase 8: The Ewing sarcoma (EWS) protein binds independent of its methylation state. *Proteins* 72: 1125-1137.

CHROMOSOMAL LOCATION

Genetic locus: PRMT8 (human) mapping to 12p13.32.

PRODUCT

PRMT8 (h2): 293 Lysate represents a lysate of human PRMT8 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

PRMT8 (h2): 293 Lysate is suitable as a Western Blotting positive control for human reactive PRMT8 antibodies. Recommended use: 10-20 µl per lane.

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

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.

PROTOCOLS

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