

METTL8 (m2): 293T Lysate: sc-127148

BACKGROUND

METTL8 (methyltransferase like 8), also known as TIP, is a 291 amino acid cytoplasmic and nuclear protein that exists as multiple alternatively spliced isoforms and is thought to function as a methyltransferase. METTL8 is a member of the methyltransferase superfamily, which includes DNA methyltransferases (Dnmt), histone methyltransferases, catechol-O-methyl transferases and many others. Members of the methyltransferase superfamily have enzymatic activity that results in the transfer of a methyl group to and from DNA, RNA or amino acids. METTL8 is encoded by a gene located on human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome.

REFERENCES

1. Ijdo, J.W., Baldini, A., Ward, D.C., Reeders, S.T. and Wells, R.A. 1991. Origin of human chromosome 2: an ancestral telomere-telomere fusion. *Proc. Natl. Acad. Sci. USA* 88: 9051-9055.
2. Avarello, R., Pedicini, A., Caiulo, A., Zuffardi, O. and Fraccaro, M. 1992. Evidence for an ancestral alphoid domain on the long arm of human chromosome 2. *Hum. Genet.* 89: 247-249.
3. Hillier, L.W., Graves, T.A., Fulton, R.S., Fulton, L.A., Pepin, K.H., Minx, P., Wagner-McPherson, C., Layman, D., Wylie, K., Sekhon, M., Becker, M.C., Fewell, G.A., Delehaanty, K.D., Miner, T.L., Nash, W.E., Kremitzki, C., Oddy, L., Du, H., Sun, H., Bradshaw-Cordum, H., Ali, J., Carter, J., et al. 2005. Generation and annotation of the DNA sequences of human chromosomes 2 and 4. *Nature* 434: 724-731.
4. Jakkaraju, S., Zhe, X., Pan, D., Choudhury and R., Schuger, L. 2005. TIPs are tension-responsive proteins involved in myogenic versus adipogenic differentiation. *Dev. Cell* 9: 39-49.
5. Hublitz, P., Albert and M., Peters, A.H. 2009. Mechanisms of transcriptional repression by histone lysine methylation. *Int. J. Dev. Biol.* 53: 335-354.
6. Wu, S.C. and Zhang, Y. 2009. Minireview: role of protein methylation and demethylation in nuclear hormone signaling. *Mol. Endocrinol.* 23: 1323-1334.
7. Liutkeviciute, Z., Lukinavicius, G., Masevicius, V., Daujotyte and D., Klimasauskas, S. 2009. Cytosine-5-methyltransferases add aldehydes to DNA. *Nat. Chem. Biol.* 5: 400-402.

CHROMOSOMAL LOCATION

Genetic locus: Mettl8 (mouse) mapping to 2 C2.

PRODUCT

METTL8 (m2): 293T Lysate represents a lysate of mouse METTL8 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.

APPLICATIONS

METTL8 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive METTL8 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.

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.