

ZMAT4 (h): 293T Lysate: sc-113870

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. Zinc finger matrix-type protein 4 (ZMAT4) is a 229 amino acid protein that contains four matrix-type zinc fingers. The matrix-type zinc finger, which is very similar in structure to the classical DNA-binding C_2H_2 zinc finger, was first identified in the protein matrix-3. It has also been identified in several spliceosome RNA-binding proteins, suggesting a role in pre-mRNA binding. ZMAT4 is localized to the nucleus, and two isoforms of this protein exist as a result of alternative splicing events.

REFERENCES

1. Thiesen, H.J. 1990. Multiple genes encoding zinc finger domains are expressed in human T cells. *New Biol.* 2: 363-374.
2. Rossi, F., Forne, T., Antoine, E., Tazi, J., Brunel, C. and Cathala, G. 1996. Involvement of U1 small nuclear ribonucleoproteins (snRNP) in 5' splice site-U1 snRNP interaction. *J. Biol. Chem.* 271: 23985-23991.
3. Matsushima, Y., Matsumura, K. and Kitagawa, Y. 1997. Zinc finger-like motif conserved in a family of RNA binding proteins. *Biosci. Biotechnol. Biochem.* 61: 905-906.
4. Hibino, Y. 2000. Functional arrangement of genomic DNA and structure of nuclear matrix. *Yakugaku Zasshi* 120: 520-533.
5. Henning, R.J. and Sawmiller, D.R. 2001. Vasoactive intestinal peptide: cardiovascular effects. *Cardiovasc. Res.* 49: 27-37.
6. Durand, S., Abadie, P., Angeletti, S. and Genti-Raimondi, S. 2003. Identification of multiple differentially expressed messenger RNAs in normal and pathological trophoblast. *Placenta* 24: 209-218.
7. Liu, J. and Stormo, G.D. 2008. Context-dependent DNA recognition code for C_2H_2 zinc-finger transcription factors. *Bioinformatics* 24:1850-1857.

CHROMOSOMAL LOCATION

Genetic locus: ZMAT4 (human) mapping to 8p11.21.

PRODUCT

ZMAT4 (h): 293T Lysate represents a lysate of human ZMAT4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

ZMAT4 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ZMAT4 antibodies. Recommended use: 10-20 µl per lane.

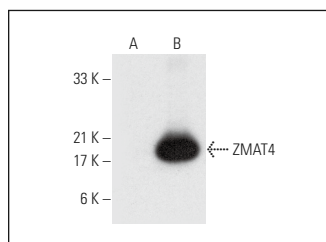
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ZMAT4 (H-7): sc-514152 is recommended as a positive control antibody for Western Blot analysis of enhanced human ZMAT4 expression in ZMAT4 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



ZMAT4 (H-7): sc-514152. Western blot analysis of ZMAT4 expression in non-transfected: sc-117752 (A) and human ZMAT4 transfected: sc-113870 (B) 293T whole cell lysates.

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.