SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF23 (m): 293T Lysate: sc-124778

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. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. As a member of the Krüppel C_2H_2-type zinc-finger protein family, ZNF236 (Zinc finger protein 236) is a 1,845 amino acid nuclear protein that contains 30 C_2H_2-type zinc fingers. ZNF236 is ubiquitously expressed, with highest levels found in brain and skeletal muscle and lowest levels found in liver, lung and kidney. Upregulation of ZNF236 expression is observed in response to elevated levels of d-glucose, suggesting that the ZNF236 gene may play a role in diabetic nephropathy. There are 2 isoforms of ZNF236, which are designated ZNF236a and ZNF236b, that are produced as a result of alternative splicing events.

REFERENCES

1. Holmes, D.I., et al. 1997. Identification of glucose-regulated genes in human mesangial cells by mRNA differential display. Biochem. Biophys. Res. Commun. 238: 179-184.
2. Holmes, D.I., et al. 1999. Cloning and characterization of ZNF236, a glucose-regulated Kruppel-like zinc-finger gene mapping to human chromosome 18q22-q23. Genomics 60: 105-109.
3. Vardarli, I., et al. 2002. Gene for susceptibility to diabetic nephropathy in type 2 diabetes maps to 18q22.3-23. Kidney Int. 62: 2176-2183.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 604760. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
5. Gunn, S.R., et al. 2003. Molecular characterization of a patient with central nervous system dysmyelination and cryptic unbalanced translocation between chromosomes 4q and 18q. Am. J. Med. Genet. A 120A: 127-135.
6. Halama, N., et al. 2003. The Kruppel-like zinc-finger gene ZNF236 is alternatively spliced and excluded as susceptibility gene for diabetic nephropathy. Genomics 82: 406-411.

CHROMOSOMAL LOCATION

Genetic locus: Zfp236 (mouse) mapping to 18 E3.

PRODUCT

ZNF23 (m): 293T Lysate represents a lysate of mouse ZNF23 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

ZNF23 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ZNF23 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.

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.