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TSARG6 (h): 293T Lysate: sc-158017

BACKGROUND

TSARG6 (testis spermatogenesis apoptosis-related gene 6 protein), also known as DnaJB13 (DnaJ homolog subfamily B member 13) or TSARG5, is a 316 amino acid member of the DnaJ/HSP 40 family of ATPase-stimulating proteins. Strongly expressed in testis and weakly expressed in liver, spleen, heart and lung, TSARG6 contains one J domain and is thought to be involved in inhibiting testis spermatogenesis apoptosis. The gene encoding TSARG6 contains eight exons and the TSARG6 protein shares 87% sequence identity with its mouse counterpart. In mice, this protein is implicated in assembly and stability of axoneme during sperm development. Three isoforms of TSARG6 exist due to alternative splicing events.

REFERENCES

1. Ohtsuka, K. and Hata, M. 2000. Mammalian HSP 40/DnaJ homologs: cloning of novel cDNAs and a proposal for their classification and nomenclature. *Cell Stress Chaperones* 5: 98-112.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 6102063. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Liu, G., Lu, G., Fu, J., Liu, S., Xing, X. and Li, L. 2003. Molecular cloning of TSARG3 gene related to apoptosis in human spermatogenic cells. *Zhonghua Yi Xue Yi Chuan Xue Za Zhi* 20: 107-110.
4. Liu, G., Lu, G.X. and Xing, X.W. 2004. Molecular cloning of TSARG6 gene related to apoptosis in human spermatogenic cells. *Acta Biochim. Biophys. Sin.* 36: 93-98.
5. Guan, J. and Yuan, L. 2008. A heat-shock protein 40, DnaJB13, is an axoneme-associated component in mouse spermatozoa. *Mol. Reprod. Dev.* 75:1379-1386.

CHROMOSOMAL LOCATION

Genetic locus: DNAJB13 (human) mapping to 11q13.4.

PRODUCT

TSARG6 (h): 293T Lysate represents a lysate of human TSARG6 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

TSARG6 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TSARG6 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.

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.