



# SZABO SCANDIC

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## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Zuschläge

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- Gefahrgutzuschlag
- Expressversand

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# TCP-11 (m): 293T Lysate: sc-123960

## BACKGROUND

TCP-11 (t-complex protein 11), also known as D6S230E, is a 503 amino acid single-pass membrane protein expressed only in fertile adult testis and is a member of the TCP-11 family. Localized to the surface of mature epididymal spermatozoa, TCP-11 may be a receptor for the fertilization promoting peptide (FPP), a peptide produced by the prostate gland and then secreted into seminal plasma. The adenylate cyclase/cyclic AMP pathway is considered to be the signal transduction pathway that is activated by the association between FPP and TCP-11. TCP-11 is suggested to play a critical role in the regulation of sperm function and fertility. The gene encoding TCP-11 is located on human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Three isoforms of TCP-11 are produced by alternative splicing events.

## REFERENCES

1. Ragoussis, J., et al. 1992. A testis-expressed Zn finger gene (ZNF76) in human 6p21.3 centromeric to the MHC is closely linked to the human homolog of the t-complex gene TCP-11. *Genomics* 14: 673-679.
2. Hosseini, R., et al. 1994. The mouse t-complex gene, *Tcp-11*, is under translational control. *Mech. Dev.* 47: 73-80.
3. Fraser, L.R., et al. 1997. TCP-11, the product of a mouse t-complex gene, plays a role in stimulation of capacitation and inhibition of the spontaneous acrosome reaction. *Mol. Reprod. Dev.* 48: 375-382.
4. Fraser, L.R. 1998. The modulation of sperm function by fertilization promoting peptide. *Hum. Reprod.* 13: 1-10.
5. Adeoya-Osiguwa, S.A., et al. 1998. FPP modulates mammalian sperm function via TCP-11 and the adenylyl cyclase/cAMP pathway. *Mol. Reprod. Dev.* 51: 468-476.
6. Fraser, L.R., et al. 1999. Modulation of adenylyl cyclase by FPP and adenosine involves stimulatory and inhibitory adenosine receptors and g proteins. *Mol. Reprod. Dev.* 53: 459-471.
7. Ma, Y., et al. 2002. Molecular characterization of the TCP11 gene which is the human homologue of the mouse gene encoding the receptor of fertilization promoting peptide. *Mol. Hum. Reprod.* 8: 24-31.
8. Safronova, L.D., et al. 2002. Sterility of males determined by functional features of the mouse spermatozoa bearing t-complex. *Ontogenez* 33: 165-169.
9. Ma, Y.X., et al. 2003. Cloning, expression, and alternative splicing of the novel isoform of hTCP11 gene. *Zhongguo Yi Xue Ke Xue Yuan Xue Bao* 25: 122-128.

## CHROMOSOMAL LOCATION

Genetic locus: *Tcp11* (mouse) mapping to 17 A3.3.

## PRODUCT

TCP-11 (m): 293T Lysate represents a lysate of mouse TCP-11 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

TCP-11 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TCP-11 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

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