



## TCP10L (A-12): sc-83759

### BACKGROUND

TCP10L (TCP10-like), also known as PRED77 or TCP10A-2 (T-complex protein 10A-2), is a 215 amino acid protein that contains a 25-amino acid leucine zipper motif and belongs to the TCP10 family. Localized to the nucleus and expressed specifically in testis and liver, TCP10L is thought to function as a transcriptional repressor that, through its leucine zipper domain, inhibits the expression of a variety of reporter genes. Additionally, TCP10L interacts with proteins such as Mad 4 and ZIP-kinase (also known as DAPK-3) and, through these interactions, may mediate both spermatogenesis and the level of differentiation in liver cells.

### REFERENCES

1. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608365. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
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3. Jiang, D.J., Yu, H.X., Hexige, S.Y., Guo, Z.K., Wang, X., Ma, L.J., Chen, Z., Zhao, S.Y. and Yu, L. 2004. Human liver specific transcriptional factor TCP10L binds to MAD4. *J. Biochem. Mol. Biol.* 37: 402-407.
4. Yu, H., Jiang, D., Guo, Z., Saiyin, H., Guo, J., Wang, X. and Yu, L. 2005. TCP10L is expressed specifically in spermatogenic cells and binds to death associated protein kinase-3. *Int. J. Androl.* 28: 163-170.
5. Zhong, Z., Qiu, J., Chen, X., Wan, B., Ni, J., Yang, Y., Bai, M., Zhang, H. and Yu, L. 2007. Identification of TCP10L as primate-specific gene derived via segmental duplication and homodimerization of TCP10L through the leucine zipper motif. *Mol. Biol. Rep.* 35: 171-178.

### CHROMOSOMAL LOCATION

Genetic locus: TCP10L (human) mapping to 21q22.11.

### SOURCE

TCP10L (A-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of TCP10L of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-83759 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### RESEARCH USE

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

### APPLICATIONS

TCP10L (A-12) is recommended for detection of TCP10L of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TCP family members.

Suitable for use as control antibody for TCP10L siRNA (h): sc-91398, TCP10L shRNA Plasmid (h): sc-91398-SH and TCP10L shRNA (h) Lentiviral Particles: sc-91398-V.

Molecular Weight of TCP10L: 24 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.