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TTC12 (m): 293T Lysate: sc-124345

BACKGROUND

The tetratricopeptide repeat (TPR) motif is a degenerate, 34 amino acid sequence found in many proteins and acts to mediate protein-protein interactions in various pathways. At the sequence level, there can be up to 16 tandem TPR repeats, each of which has a helix-turn-helix shape that stacks on other TPR repeats to achieve ligand binding specificity. TTC12 (tetratricopeptide repeat domain 12), also known as TPARM, is a 705 amino acid cytoplasmic protein containing a TPR repeat domain and 3 armadillo repeat motifs. TTC12 is expressed in testis, prostate, lung, germinal center B cells, neuroblastoma, teratocarcinoma, colon cancer and gastric cancer. The gene encoding TTC12 is located in a region of human chromosome 11 that is commonly deleted in a variety of cancers, therefore, it is considered a candidate tumor suppressor gene. Human chromosome 11 houses over 1,400 genes and comprises nearly 4% of the human genome.

REFERENCES

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5. Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 610732. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. Korkola, J.E., Heck, S., Olshen, A.B., Reuter, V.E., Bosl, G.J., Houldsworth, J. and Chaganti, R.S. 2008. *In vivo* differentiation and genomic evolution in adult male germ cell tumors. *Genes Chromosomes Cancer* 47: 43-55.
7. David, S.P., Mezuk, B., Zandi, P.P., Strong, D., Anthony, J.C., Niaura, R., Uhl, G.R. and Eaton, W.W. 2010. Sex differences in TTC12/ANKK1 haplotype associations with daily tobacco smoking in black and white Americans. *Nicotine Tob. Res.* 12: 251-262.

CHROMOSOMAL LOCATION

Genetic locus: Ttc12 (mouse) mapping to 9 A5.3.

PRODUCT

TTC12 (m): 293T Lysate represents a lysate of mouse TTC12 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

TTC12 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TTC12 antibodies. Recommended use: 10-20 µl per lane.

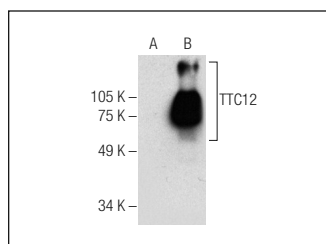
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TTC12 (E-8): sc-390241 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse TTC12 expression in TTC12 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

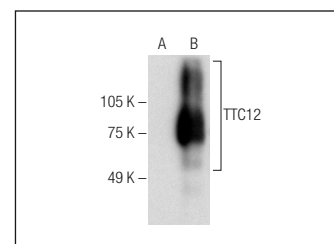
RECOMMENDED SUPPORT REAGENTS

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



TTC12 (E-8): sc-390241. Western blot analysis of TTC12 expression in non-transfected: sc-117752 (A) and mouse TTC12 transfected: sc-124345 (B) 293T whole cell lysates.



TTC12 (B-1): sc-390229. Western blot analysis of TTC12 expression in non-transfected: sc-117752 (A) and mouse TTC12 transfected: sc-124345 (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.