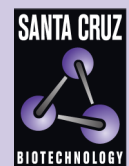


TSSC1 (C-7): sc-376124



The Power to Question

BACKGROUND

TSSC1 (tumor suppressing subtransferable candidate 1) is a 387 amino acid protein that contains five WD repeat domains—motifs that may be involved in protein-protein interactions. Expressed throughout the body, TSSC1 is composed of three exons and shares similarity with RbAp48 (a retinoblastoma binding protein) and the *Drosophila* protein Caf-1. The gene encoding TSSC1 is thought to be associated with a tumor-suppressing region that, if altered, can lead to lung, ovarian and breast cancer, rhabdomyosarcoma, Beckwith-Wiedemann syndrome, Wilms' tumor, low birth weight and adrenocortical carcinoma.

REFERENCES

- Hu, R.J., et al. 1997. A 2.5-Mb transcript map of a tumor-suppressing sub-chromosomal transferable fragment from 11p15.5, and isolation and sequence analysis of three novel genes. *Genomics* 46: 9-17.
- Scelfo, R., et al. 1998. Subchromosomal assignment of the TSSC1 gene to human chromosome band 11p15.5 near the HBB gene cluster. *Cytogenet. Cell Genet.* 83: 52-53.
- Sohal, J., et al. 2001. Identification of four new translocations involving FGFR1 in myeloid disorders. *Genes Chromosomes Cancer* 32: 155-163.
- Chan, A.S., et al. 2002. Identification of a novel gene NCRMS on chromosome 12q21 with differential expression between rhabdomyosarcoma subtypes. *Oncogene* 21: 3029-3037.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608998. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: TSSC1 (human) mapping to 2p25.3.

SOURCE

TSSC1 (C-7) is a mouse monoclonal antibody raised against amino acids 1-193 mapping at the N-terminus of TSSC1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TSSC1 (C-7) is available conjugated to agarose (sc-376124 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376124 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376124 PE), fluorescein (sc-376124 FITC), Alexa Fluor® 488 (sc-376124 AF488), Alexa Fluor® 546 (sc-376124 AF546), Alexa Fluor® 594 (sc-376124 AF594) or Alexa Fluor® 647 (sc-376124 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376124 AF680) or Alexa Fluor® 790 (sc-376124 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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RESEARCH USE

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

APPLICATIONS

TSSC1 (C-7) is recommended for detection of TSSC1 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TSSC1 siRNA (h): sc-94467, TSSC1 shRNA Plasmid (h): sc-94467-SH and TSSC1 shRNA (h) Lentiviral Particles: sc-94467-V.

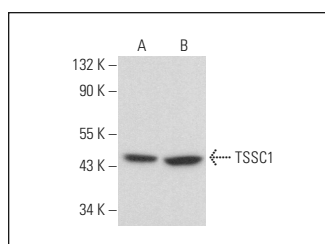
Molecular Weight of TSSC1: 44 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206 or COLO 205 whole cell lysate: sc-364177.

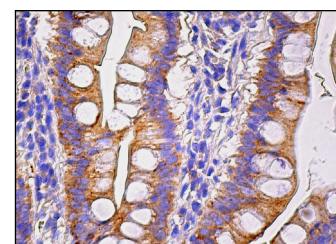
RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



TSSC1 (C-7): sc-376124. Western blot analysis of TSSC1 expression in MCF7 (A) and COLO 205 (B) whole cell lysates.



TSSC1 (C-7): sc-376124. Immunoperoxidase staining of formalin fixed, paraffin-embedded human small intestine tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

- Ognibene, M., et al. 2021. High grade of amplification of six regions on chromosome 2p in a neuroblastoma patient with very poor outcome: the putative new oncogene TSSC1. *Cancers* 13: 5792.

STORAGE

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