## SANTA CRUZ BIOTECHNOLOGY, INC.

# TCTE1 (L-13): sc-135525



## BACKGROUND

TCTE1 (T-complex-associated testis-expressed protein 1) is a 501 amino acid protein that contains 5 LRR (leucine-rich) repeats. The gene that encodes TCTE1 consists of approximately 18,979 bases and maps to human chromosome 6p21.1. Chromosome 6 makes up nearly 6% of the human genome and contains 170 million base pairs, which encode 1,200 genes. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. A bipolar disorder susceptibility locus is also linked to the q arm of chromosome 6. The PARK2 gene, which is associated with Parkinson's disease, and the genes encoding the major histocompatiblity complex proteins are located on chromosome 6. Stickler syndrome, 21-hydroxylase deficiency and maple syrup urine disease are also associated with genes on chromosome 6.

## REFERENCES

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- 4. Watanabe, T.K., et al. 1996. Cloning, expression, and mapping of TCTEL1, a putative human homologue of murine Tcte1, to 6q. Cytogenet. Cell Genet. 73: 153-156.
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- 6. Cesari, R., et al. 2003. Parkin, a gene implicated in autosomal recessive juvenile parkinsonism, is a candidate tumor suppressor gene on chromosome 6q25-q27. Proc. Natl. Acad. Sci. USA 100: 5956-5961.
- 7. Bläker, H., et al. 2008. Recurrent deletions at 6q in early age of onset non-HNPCC- and non-FAP-associated intestinal carcinomas. Evidence for a novel cancer susceptibility locus at 6q14-q22. Genes Chromosomes Cancer 47: 159-164.
- 8. Fan, J., et al. 2010. Linkage disequilibrium mapping of the chromosome 6q21-22.31 bipolar I disorder susceptibility locus. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B: 29-37.
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## CHROMOSOMAL LOCATION

Genetic locus: TCTE1 (human) mapping to 6p21.1; Tcte1 (mouse) mapping to 17 B3.

#### **RESEARCH USE**

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

## SOURCE

TCTE1 (L-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TCTE1 of human origin.

## PRODUCT

Each vial contains 200 µg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-135525 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

TCTE1 (L-13) is recommended for detection of TCTE1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 TCTE family members.

TCTE1 (L-13) is also recommended for detection of TCTE1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TCTE1 siRNA (h): sc-95212, TCTE1 siRNA (m): sc-154148, TCTE1 shRNA Plasmid (h): sc-95212-SH, TCTE1 shRNA Plasmid (m): sc-154148-SH, TCTE1 shRNA (h) Lentiviral Particles: sc-95212-V and TCTE1 shRNA (m) Lentiviral Particles: sc-154148-V.

Molecular Weight of TCTE1: 56 kDa.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **STORAGE**

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

## **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.