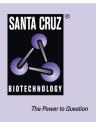
# SANTA CRUZ BIOTECHNOLOGY, INC.

# LOC645686 (E-12): sc-84414



#### BACKGROUND

LOC645686 is a 104 amino acid protein that is encoded by a gene mapping to chromosome 13, which comprises nearly 4% of human DNA, contains about 114 million base pairs and 400 genes. Key tumor suppressor genes on chromosome 13 include the breast cancer susceptibility gene, BRCA2, and the RB1 (retinoblastoma) gene. RB1 encodes a crucial tumor suppressor protein which, when defective, leads to malignant growth in the retina and has been implicated in a variety of other cancers. The gene SLITRK1, which is associated with Tourette syndrome, is on chromosome 13 is deleterious to development and decreases the odds of survival.

# REFERENCES

- Deng, H., Le, W.D., Xie, W.J. and Jankovic, J. 2006. Examination of the SLITRK1 gene in Caucasian patients with Tourette syndrome. Acta Neurol. Scand. 114: 400-402.
- Hsu, H.F. and Hou, J.W. 2007. Variable expressivity in Patau syndrome is not all related to trisomy 13 mosaicism. Am. J. Med. Genet. A 143A: 1739-1748.
- Hall, H.E., Chan, E.R., Collins, A., Judis, L., Shirley, S., Surti, U., Hoffner, L., Cockwell, A.E., Jacobs, P.A. and Hassold, T.J. 2007. The origin of trisomy 13. Am. J. Med. Genet. A 143A: 2242-2248.
- Thorslund, T. and West, S.C. 2007. BRCA2: a universal recombinase regulator. Oncogene 26: 7720-7730.
- Kanber, D., Berulava, T., Ammerpohl, O., Mitter, D., Richter, J., Siebert, R., Horsthemke, B., Lohmann, D. and Buiting, K. 2009. The human retinoblastoma gene is imprinted. PLoS Genet. 5: e1000790.

## CHROMOSOMAL LOCATION

Genetic locus: GTF2IP3 (human) mapping to 13q11.

## SOURCE

LOC645686 (E-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of LOC645686 of human origin.

#### PRODUCT

Each vial contains 100  $\mu g$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84414 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **STORAGE**

Store at 4° C, \*\*D0 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

LOC645686 (E-12) is recommended for detection of LOC645686 of 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); may cross-react with TFII-I protein.

Suitable for use as control antibody for LOC645686 siRNA (h): sc-75520, LOC645686 shRNA Plasmid (h): sc-75520-SH and LOC645686 shRNA (h) Lentiviral Particles: sc-75520-V.

Molecular Weight of LOC645686: 13 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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluo-rescence: 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<sup>™</sup> Mounting Medium: sc-24941.

#### PROTOCOLS

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