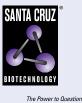
## SANTA CRUZ BIOTECHNOLOGY, INC.

# LOC729825 (A-11): sc-390882



#### 1101000000000

## BACKGROUND

Comprising nearly 4% of human DNA, chromosome 13 contains around 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. As with most chromosomes, polysomy of part or all of chromosome 13 is deleterious to development and decreases the odds of survival. Trisomy 13, also known as Patau syndrome, is quite deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections. The LOC729825 gene product has been provisionally designated LOC729825 pending further characterization.

## REFERENCES

- Dunham, A., et al. 2004. The DNA sequence and analysis of human chromosome 13. Nature 428: 522-528.
- 2. Deng, H., et al. 2006. Examination of the SLITRK1 gene in Caucasian patients with Tourette syndrome. Acta Neurol. Scand. 114: 400-402.
- 3. Giacinti, C. and Giordano, A. 2006. RB and cell cycle progression. Oncogene 25: 5220-5227.
- Grados, M.A. and Walkup, J.T. 2006. A new gene for Tourette's syndrome: a window into causal mechanisms? Trends Genet. 22: 291-293.

## **CHROMOSOMAL LOCATION**

Genetic locus: LOC729825 (human) mapping to 13q12.12.

## SOURCE

L0C729825 (A-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 15-42 near the N-terminus of L0C729825 of human origin.

## PRODUCT

Each vial contains 200  $\mu g$  lgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

L0C729825 (A-11) is available conjugated to agarose (sc-390882 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390882 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390882 PE), fluorescein (sc-390882 FITC), Alexa Fluor<sup>®</sup> 488 (sc-390882 AF488), Alexa Fluor<sup>®</sup> 546 (sc-390882 AF546), Alexa Fluor<sup>®</sup> 594 (sc-390882 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-390882 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-390882 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-390882 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390882 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

## **APPLICATIONS**

L0C729825 (A-11) is recommended for detection of L0C729825 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

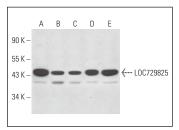
Molecular Weight of LOC729825: 44 kDa.

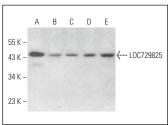
Positive Controls: K-562 whole cell lysate: sc-2203, Jurkat whole cell lysate: sc-2204 or SH-SY5Y cell lysate: sc-3812.

## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> 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-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

## DATA





L0C729825 (A-11): sc-390882. Western blot analysis of L0C729825 expression in K-562 (Å), Jurkat (B), HeLa (C), SH-SY5Y (D) and Hep G2 (E) whole cell lysates.

L0C729825 (A-11): sc-390882. Western blot analysis of L0C729825 expression in HEL 92.1.7 (A), MM-142 (B), TK-1 (C), KNRK (D) and PC-12 (E) whole cell lysates.

#### **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.

## PROTOCOLS

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