

# LACC1 (K-15): sc-84033

## BACKGROUND

LACC1 is a 430 amino acid protein that is encoded by a gene which maps to chromosome 13. 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 LACC1 gene product has been provisionally designated LACC1 pending further characterization.

## CHROMOSOMAL LOCATION

Genetic locus: LACC1 (human) mapping to 13q14.11; 9030625A04Rik (mouse) mapping to 14 D3.

## SOURCE

LACC1 (K-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of LACC1 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84033 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

LACC1 (K-15) is recommended for detection of LACC1 of human origin, 9030625A04Rik of mouse origin and the corresponding rat homolog 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

LACC1 (K-15) is also recommended for detection of LACC1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for LACC1 siRNA (h): sc-105147, 9030625A04Rik siRNA (m): sc-140511, LACC1 shRNA Plasmid (h): sc-105147-SH, 9030625A04Rik shRNA Plasmid (m): sc-140511-SH, LACC1 shRNA (h) Lentiviral Particles: sc-105147-V and 9030625A04Rik shRNA (m) Lentiviral Particles: sc-140511-V.

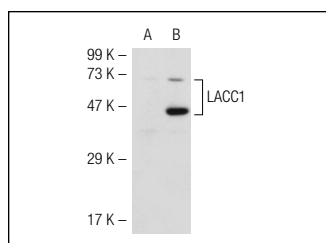
Molecular Weight of LACC1: 48 kDa.

Positive Controls: LACC1 (h): 293T Lysate: sc-115440.

## 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™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: 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™ Mounting Medium: sc-24941.

## DATA



LACC1 (K-15): sc-84033. Western blot analysis of LACC1 expression in non-transfected: sc-117752 (A) and human LACC1 transfected: sc-115440 (B) 293T whole cell lysates.

## STORAGE

Store at 4° C, \*\*DO 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **LACC1 (E-7): sc-374553** or **LACC1 (E-12): sc-376231**, our highly recommended monoclonal alternatives to LACC1 (K-15).