SANTA CRUZ BIOTECHNOLOGY, INC.

TRAPPC6A (G-5): sc-376032

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TRAPPC6A (trafficking protein particle complex 6A), also known as TRS33 or HSPC289, is a 159 amino acid protein that localizes to the Golgi apparatus and endoplasmic reticulum. Belonging to the TRAPP small subunits family and the BET3 subfamily, TRAPPC6A may play a role in vesicular transport during the biogenesis of melanosomes. TRAPPC6A is part of the multisubunit TRAPP tethering complex, which acts as a GTP exchange factor. TRAPPC6A exists as a heterodimer with TRAPPC3 and undergoes alternative splicing to produce two isoforms. TRAPPC6A is encoded by a gene located on human chromosome 19, which consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Chromosome 19 is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leu-kocyte Ig-like receptors, a variety of ICAMs, the CEACAM and PSG families and Fc receptors (FcRs).

REFERENCES

1. Jones, S., et al. 2000. The TRAPP complex is a nucleotide exchanger for Ypt1 and Ypt31/32. Mol. Biol. Cell 11: 4403-4411.
2. Gwynn, B., et al. 2006. A mouse TRAPP-related protein is involved in pigmentation. Genomics 88: 196-203.
3. Kokkinakis, D.M., et al. 2006. Mitotic arrest, apoptosis, and sensitization to chemotherapy of melanomas by methionine deprivation stress. Mol. Cancer Res. 4: 575-589.

CHROMOSOMAL LOCATION

Genetic locus: TRAPPC6A (human) mapping to 19q13.32.

SOURCE

TRAPPC6A (G-5) is a mouse monoclonal antibody raised against amino acids 1-53 mapping at the N-terminus of TRAPPC6A of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TRAPPC6A (G-5) is available conjugated to agarose (sc-376032 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-376032 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376032 PE), fluorescein (sc-376032 FITC), Alexa Fluor® 488 (sc-376032 AF488), Alexa Fluor® 546 (sc-376032 AF546), Alexa Fluor® 594 (sc-376032 AF594) or Alexa Fluor® 647 (sc-376032 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376032 AF680) or Alexa Fluor® 790 (sc-376032 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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

STORAGE

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

APPLICATIONS

TRAPPC6A (G-5) is recommended for detection of TRAPPC6A of 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), 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 TRAPPC6A siRNA (h): sc-97243, TRAPPC6A shRNA Plasmid (h): sc-97243-SH and TRAPPC6A shRNA (h) Lentiviral Particles: sc-97243-V.

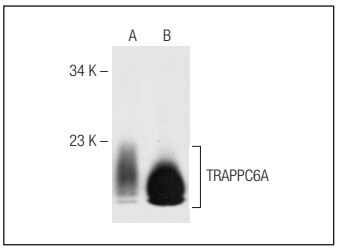
Molecular Weight of TRAPPC6A: 17 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or HL-60 whole cell lysate: sc-2209.

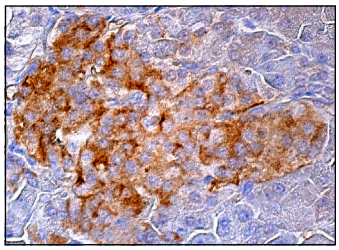
RECOMMENDED SUPPORT REAGENTS

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



TRAPPC6A (G-5): sc-376032. Western blot analysis of TRAPPC6A expression in Jurkat (**A**) and HL-60 (**B**) whole cell lysates.



TRAPPC6A (G-5): sc-376032. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing cytoplasmic staining of Islets of Langerhans.

SELECT PRODUCT CITATIONS

1. Zhao, S., et al. 2017. Mammalian TRAPPIII complex positively modulates the recruitment of Sec13/31 onto COPII vesicles. Sci. Rep. 7: 43207.

RESEARCH USE

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