

TRAPPC6A (H-53): sc-292012

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 leukocyte Ig-like receptors, a variety of ICAMs, the CEACAM and PSG families and Fc receptors (Fc Rs).

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.
4. Ossandon, F.J., et al. 2008. In silico analysis of gastric carcinoma serial analysis of gene expression libraries reveals different profiles associated with ethnicity. *Mol. Cancer* 7: 22.
5. Kwei, K.A., et al. 2008. Genomic profiling identifies GATA6 as a candidate oncogene amplified in pancreaticobiliary cancer. *PLoS Genet.* 4: e1000081.
6. Sacher, M., et al. 2008. The TRAPP complex: insights into its architecture and function. *Traffic* 9: 2032-2042.

CHROMOSOMAL LOCATION

Genetic locus: TRAPPC6A (human) mapping to 19q13.32; Trappc6a (mouse) mapping to 7 A3.

SOURCE

TRAPPC6A (H-53) is a rabbit polyclonal antibody raised against amino acids 1-53 mapping at the N-terminus of TRAPPC6A of human origin.

PRODUCT

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

STORAGE

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

APPLICATIONS

TRAPPC6A (H-53) is recommended for detection of TRAPPC6A of mouse, rat and human origin 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).

TRAPPC6A (H-53) is also recommended for detection of TRAPPC6A in additional species, including bovine and canine.

Suitable for use as control antibody for TRAPPC6A siRNA (h): sc-97243, TRAPPC6A siRNA (m): sc-154589, TRAPPC6A shRNA Plasmid (h): sc-97243-SH, TRAPPC6A shRNA Plasmid (m): sc-154589-SH, TRAPPC6A shRNA (h) Lentiviral Particles: sc-97243-V and TRAPPC6A shRNA (m) Lentiviral Particles: sc-154589-V.

Molecular Weight of TRAPPC6A: 17 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™ 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.

RESEARCH USE

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

PROTOCOLS

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



Try **TRAPPC6A (G-5): sc-376032**, our highly recommended monoclonal alternative to TRAPPC6A (H-53).