

# TRAPPC6B (E-12): sc-137870

## BACKGROUND

TRAPPC6B (trafficking protein particle complex 6B), also known as TPC6, is a 158 amino acid protein that localizes to the Golgi apparatus and the endoplasmic reticulum. Belonging to the TRAPP (transport protein particle) small subunits family and the BET3 subfamily, TRAPPC6B may play a role in vesicular transport during the biogenesis of melanosomes. TRAPPC6B is part of the multisubunit TRAPP tethering complex, a large multiprotein complex involved in endoplasmic reticulum-to-Golgi and intra-Golgi traffic. TRAPPC6B exists as a heterodimer with TRAPPC3 and undergoes alternative splicing to produce two isoforms. TRAPPC6B is encoded by a gene located on human chromosome 14, which contains about 700 genes and 106 million base pairs and makes up about 3.5% of human cellular DNA.

## REFERENCES

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3. Turnbull, A.P., et al. 2005. Structure of palmitoylated BET3: insights into TRAPP complex assembly and membrane localization. *EMBO J.* 24: 875-884.
4. Kümmel, D., et al. 2005. The structure of the TRAPP subunit TPC6 suggests a model for a TRAPP subcomplex. *EMBO Rep.* 6: 787-793.
5. Oka, T. and Krieger, M. 2005. Multi-component protein complexes and Golgi membrane trafficking. *J. Biochem.* 137: 109-114.
6. Kim, Y.G., et al. 2005. Crystal structure of bet3 reveals a novel mechanism for Golgi localization of tethering factor TRAPP. *Nat. Struct. Mol. Biol.* 12: 38-45.
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8. Kümmel, D., et al. 2006. Structure of the Bet3-Tpc6B core of TRAPP: two Tpc6 paralogs form trimeric complexes with Bet3 and Mum2. *J. Mol. Biol.* 361: 22-32.
9. Sacher, M., et al. 2008. The TRAPP complex: insights into its architecture and function. *Traffic* 9: 2032-2042.

## CHROMOSOMAL LOCATION

Genetic locus: TRAPPC6B (human) mapping to 14q21.1; Trappc6b (mouse) mapping to 12 C1.

## SOURCE

TRAPPC6B (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TRAPPC6B 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.

Blocking peptide available for competition studies, sc-137870 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TRAPPC6B (E-12) is recommended for detection of TRAPPC6B isoforms 1 and 2 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); non cross-reactive with TRAPPC6A.

TRAPPC6B (E-12) is also recommended for detection of TRAPPC6B isoforms 1 and 2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TRAPPC6B siRNA (h): sc-92332, TRAPPC6B siRNA (m): sc-154590, TRAPPC6B shRNA Plasmid (h): sc-92332-SH, TRAPPC6B shRNA Plasmid (m): sc-154590-SH, TRAPPC6B shRNA (h) Lentiviral Particles: sc-92332-V and TRAPPC6B shRNA (m) Lentiviral Particles: sc-154590-V.

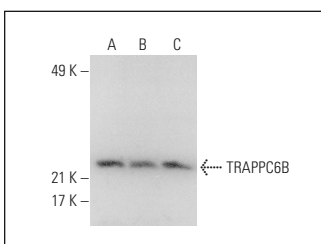
Molecular Weight of TRAPPC6B isoforms: 18/15 kDa.

Positive Controls: TK-1 whole cell lysate: sc-364798, MES-SA/Dx5 cell lysate: sc-2284 or Ramos cell lysate: sc-2216.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



TRAPPC6B (E-12): sc-137870. Western blot analysis of TRAPPC6B expression in TK-1 (A), MES-SA/D x5 (B) and Ramos (C) 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.