SANTA CRUZ BIOTECHNOLOGY, INC.

TRAPPC10 (RR-18): sc-101259

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TRAPPC10, also known as TMEM1 (transmembrane protein 1), EHOC1 (epilepsy holoprosencephaly candidate 1 protein) or GT334, is a widely expressed 1,259 amino acid protein that may function in vesicular transport. Despite its name, TRAPPC10 does not contain transmembrane domains. It is the human ortholog of the yeast Trs130 protein and its structure and function appears to be conserved. Localizing to the *cis*-Golgi apparatus, TRAPPC10 is believed to be involved in transport from the endoplasmic reticulum (ER) to the Golgi functioning as a component of the multisubunit transport protein particle (TRAPP) complex. Mutations in the gene encoding TRAPPC10 may be involved in autoimmune polyglandular disease type 1 or Unverricht-Lundborg disease, an autosomal recessive type of progressive myoclonic epilepsy.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRAPPC10 (human) mapping to 21q22.3.

SOURCE

TRAPPC10 (RR-18) is a mouse monoclonal antibody raised against recombinant TMEM1 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TRAPPC10 (RR-18) is recommended for detection of TRAPPC10 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TRAPPC10 siRNA (h): sc-76682, TRAPPC10 shRNA Plasmid (h): sc-76682-SH and TRAPPC10 shRNA (h) Lentiviral Particles: sc-76682-V.

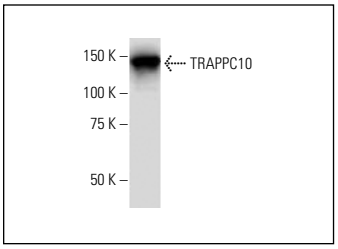
Molecular Weight of TRAPPC10: 142 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

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).

DATA



TRAPPC10 (RR-18): sc-101259. Western blot analysis of TRAPPC10 expression in HeLa nuclear extract.

SELECT PRODUCT CITATIONS

1. Li, C., Luo, X., Zhao, S., Siu, G.K., Liang, Y., Chan, H.C., Satoh, A. and Yu, S.S. 2017. COPI-TRAPPII activates Rab18 and regulates its lipid droplet association. EMBO J. 36: 441-457.
2. Ke, Y., Weng, M., Chhetri, G., Usman, M., Li, Y., Yu, Q., Ding, Y., Wang, Z., Wang, X., Sultana, P., DiFiglia, M. and Li, X. 2020. Trappc9 deficiency in mice impairs learning and memory by causing imbalance of dopamine D1 and D2 neurons. Sci. Adv. 6: eabb7781.

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.