SANTA CRUZ BIOTECHNOLOGY, INC.

TRAPPC4 (m): 293T Lysate: sc-124264

BACKGROUND

TRAPPC4 (trafficking protein particle complex 4), also known as SBDN, TRS23, PTD009, CGI-104, HSPC172 (hematopoietic stem/progenitor cell protein 172) or SYNBINDIN, is a postsynaptic protein belonging to the TRAPPC4 subfamily of the TRAPP small subunits family of proteins. Expressed in neurons and localizing to the Golgi apparatus, TRAPPC4 is believed to be involved in vesicular transport from the endoplasmic reticulum (ER) to the Golgi, functioning as a component of the multisubunit transport protein particle (TRAPP) complex. Similar to other proteins involved in vesicular transport or synaptic function, TRAPPC4 contains a nonclassical PDZ domain, a TRAPPC1-like domain and a C-terminus that is similar to a short segment of RyR. Via its nonclassical PDZ domain, TRAPPC4 binds to the C-terminal EFYA motif of syndecan-2, suggesting that TRAPPC4 may play an important role in dendritic spine morphogenesis through membrane-trafficking.

REFERENCES

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3. Simons, M. and Horowitz, A. 2001. Syndecan-4-mediated signalling. Cell. Signal. 13: 855-862.
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7. Essner, J.J., Chen, E. and Ekker, S.C. 2006. Syndecan-2. Int. J. Biochem. Cell Biol. 38: 152-156.

CHROMOSOMAL LOCATION

Genetic locus: Trappc4 (mouse) mapping to 9 A5.2.

PRODUCT

TRAPPC4 (m): 293T Lysate represents a lysate of mouse TRAPPC4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

TRAPPC4 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TRAPPC4 antibodies. Recommended use: 10-20 µl per lane.

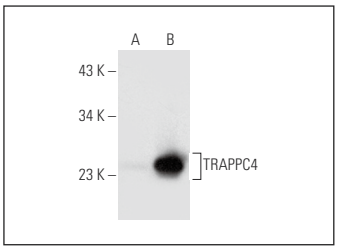
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TRAPPC4 (C-7): sc-390551 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse TRAPPC4 expression in TRAPPC4 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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.

DATA



TRAPPC4 (C-7): sc-390551. Western blot analysis of TRAPPC4 expression in non-transfected: sc-117752 (**A**) and mouse TRAPPC4 transfected: sc-124264 (**B**) 293T whole cell lysates.

RESEARCH USE

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