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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SANTA CRUZ BIOTECHNOLOGY, INC.

TBCB (m): 293T Lysate: sc-127638

BACKGROUND

Microtubules, the primary component of the cytoskeletal network, are highly dynamic structures composed of α/β Tubulin heterodimers. Biosynthesis of functional microtubules involve the participation of several chaperones, termed Tubulin folding cofactors A (TBCA), B (TBCB), D (TBCD), E (TBCE) and C (TBCC), that act on folding intermediates downstream of the cytosolic chaperon, alternatively named TCP. TBCB (tubulin folding cofactor B), also known as CG22, CKAP1 or CKAPI, is a 244 amino acid cytoplasmic protein containing one CAP-Gly domain and in widely expressed. TBCB is involved in the regulation of tubulin heterodimer dissociation and may function as a negative regulator of axonal growth.

REFERENCES

1. Tian, G., et al. 1996. Pathway leading to correctly folded β-Tubulin. Cell 86: 287-296.
2. Tian, G., et al. 1997. Tubulin subunits exist in an activated conformational state generated and maintained by protein cofactors. J. Cell Biol. 138: 821-832.
3. Grynberg, M., et al. 2003. Domain analysis of the Tubulin cofactor system: a model for tubulin folding and dimerization. BMC Bioinformatics 4: 46.
4. Wang, W., et al. 2005. Gigaxonin interacts with tubulin folding cofactor B and controls its degradation through the ubiquitin-proteasome pathway. Curr. Biol. 15: 2050-2055.
5. Vadlamudi, R.K., et al. 2005. p21-activated kinase 1 regulates microtubule dynamics by phosphorylating tubulin cofactor B. Mol. Cell. Biol. 25: 3726-3736.
6. Kortazar, D., et al. 2007. Role of cofactors B (TBCB) and E (TBCE) in Tubulin heterodimer dissociation. Exp. Cell Res. 313: 425-436.
7. Lopez-Fanarraga, M., et al. 2007. Tubulin cofactor B plays a role in the neuronal growth cone. J. Neurochem. 100: 1680-1687.
8. Fanarraga, M.L., et al. 2009. Tubulin cofactor B regulates microtubule densities during microglia transition to the reactive states. Exp. Cell Res. 315: 535-541.

CHROMOSOMAL LOCATION

Genetic locus: Tbcb (mouse) mapping to 7 B1.

PRODUCT

TBCB (m): 293T Lysate represents a lysate of mouse TBCB 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

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

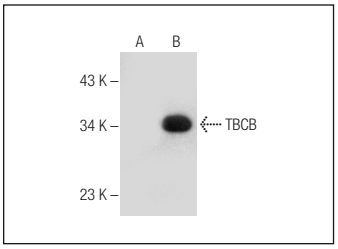
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TBCB (B-12): sc-377139 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse TBCB expression in TBCB 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



TBCB (B-12): sc-377139. Western blot analysis of TBCB expression in non-transfected: sc-117752 (**A**) and mouse TBCB transfected: sc-127638 (**B**) 293T whole cell lysates.

RESEARCH USE

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