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TBCB (h3): 293T Lysate: sc-170497

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 CKAP1, is a 244 amino acid cytoplasmic protein containing one CAP-Gly domain and is 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.
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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.
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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 (human) mapping to 19q13.12.

PRODUCT

TBCB (h3): 293T Lysate represents a lysate of human TBCB transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive TBCB antibodies. Recommended use: 10-20 μ l per lane.

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

RESEARCH USE

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