

TBCB (N-13): sc-131345

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.

CHROMOSOMAL LOCATION

Genetic locus: TBCB (human) mapping to 19q13.12; TbcB (mouse) mapping to 7 B1.

SOURCE

TBCB (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TBCB of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-131345 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TBCB (N-13) is recommended for detection of TBCB of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

TBCB (N-13) is also recommended for detection of TBCB in additional species, including canine.

Suitable for use as control antibody for TBCB siRNA (h): sc-97092, TBCB siRNA (m): sc-154114, TBCB shRNA Plasmid (h): sc-97092-SH, TBCB shRNA Plasmid (m): sc-154114-SH, TBCB shRNA (h) Lentiviral Particles: sc-97092-V and TBCB shRNA (m) Lentiviral Particles: sc-154114-V.

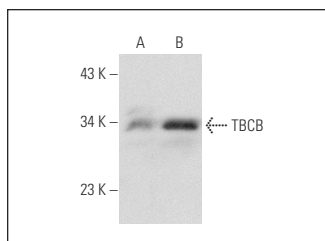
Molecular Weight of TBCB: 27 kDa.

Positive Controls: TBCB (m): 293T Lysate: sc-127638 or MIA PaCa-2 cell lysate: sc-2285.

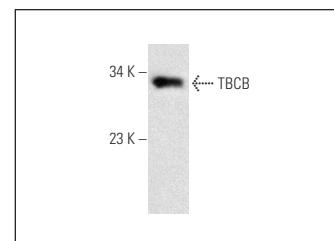
RECOMMENDED SECONDARY REAGENTS

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



TBCB (N-13): sc-131345. Western blot analysis of TBCB expression in non-transfected: sc-117752 (A) and mouse TBCB transfected: sc-127638 (B) 293T whole cell lysates.



TBCB (N-13): sc-131345. Western blot analysis of TBCB expression in MIA PaCa-2 whole cell lysate.

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.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **TBCB (E-1): sc-390783** or **TBCB (B-12): sc-377139**, our highly recommended monoclonal alternatives to TBCB (N-13).