

Human TBCB antibody

Catalog Number: ATGA0302

PRODUCT INFORMATION

Catalog number

ATGA0302

Clone No.

AT1F6

Product type

Monoclonal Antibody

UnitProt No.

Q99426

NCBI Accession No.

NP_001272

Alternative Names

Tubulin folding cofactor B, CG22, CKAP1, CKAPI

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human TBCB (1-244aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1500

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Tubulin folding cofactor B, also known as TBCB, belongs to the Microtubules family. Biosynthesis of functional microtubules involve the participation of several chaperones, termed Tubulin folding cofactors A (TBFA), B (TBCB), D (TBFD), E (TBFE) and C (TBFC), that act on folding intermediates downstream of the cytosolic chaperon, alternatively named TCP. TBCB 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.

General References

- Kortazar D., et al. (2007) Exp Cell Res. 313:425-436.
- Tian G., et al. (1997) J Cell Biol. 138: 821-832
- Fanarraga ML., et al. (2009) Exp cell Res 315:535-541

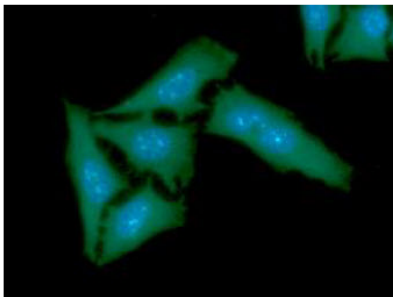
DATA

Western blot analysis (WB)



The cell lysates of Jurkat(40ug) and A549(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TBCB antibody (1:1500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)

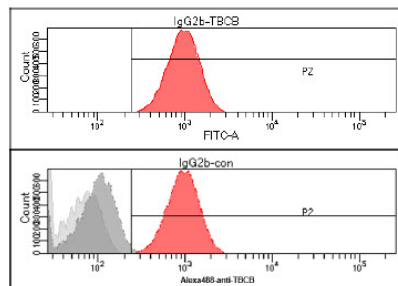


ICC/IF analysis of TBCB in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human TBCB antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

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Flow cytometry (FACS)



Flow cytometry analysis of TBCB in HeLa cells. The cell was stained with ATGA0302 at 2-5ug for 1x10⁶ cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).