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# **Human TBCA antibody**

Catalog Number: ATGA0155

## **PRODUCT INFORMATION**

## Catalog number

ATGA0155

#### Clone No.

AT1A5

## **Product type**

Monoclonal Antibody

#### UnitProt No.

075347

#### **NCBI Accession No.**

NP 004598

#### **Alternative Names**

Tubulin folding cofactor A, Tubulin folding cofactor A, chaperonin cofactor a, tubulin specific chaperone a, TBCA, Tubulin folding cofactor A CFA, Co chaperonin associated with a & b tubulin, Cofactor A, TCP1 chaperonin cofactor A, Tubulin cofactor a

# **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 TBCA (1-108aa) purified from E. coli

## Isotype

IgG2b kappa

#### **Purification Note**

By protein-G affinity chromatography

### **Application**

ELISA, WB, ICC/IF, FACS

#### Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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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**

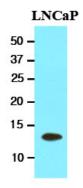
Tubulin folding cofactor A, also known as TBCA, is one of four proteins (cofactors A, D, E, and C) involved in the pathway leading to correctly folded beta-tubulin from folding intermediates. Cofactors A and D are believed to play a role in capturing and stabilizing beta-tubulin in a quasi-native confirmation. This protein is essential for cell viability and its knockdown produces a decrease in the amount of soluble tubulin, modifications in microtubules and G1 cell cycle arrest.

#### **General References**

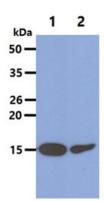
Nolasco S, et al., (2005) FEBS Lett 579(17):3515-3524. Tian G, et al., (1996) Cell 86(2):287-296.

#### **DATA**

# Western blot analysis (WB)



The cell lysate of LNCap(20ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TBCA antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



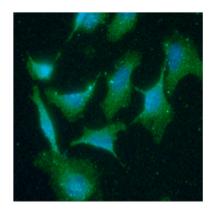
The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TBCA antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: K562 cell lysate

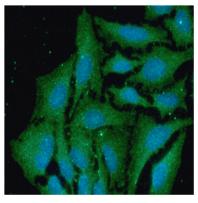
Immunocytochemistry/Immunofluorescence (ICC/IF)

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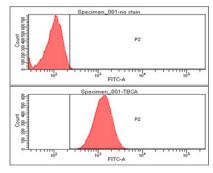


ICC/IF analysis of TBCA in A549 cells. The cell was stained with ATGA0155 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



ICC/IF analysis of TBCA in HeLa cells. The cell was stained with ATGA0155 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

# Flow cytometry (FACS)



Flow cytometry analysis of TBCA in HeLa cell line, staining at 2-5ug for  $1\times10^6$  cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.

