

# Human Cystatin B antibody

Catalog Number: ATGA0534

## PRODUCT INFORMATION

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**Catalog number**

ATGA0534

**Clone No.**

2F1

**Product type**

Monoclonal antibody

**UnitProt No.**

P04080

**NCBI Accession No.**

NP\_000091

**Alternative Names**

CystatinB, Cystatin B, CSTB, Stefin B, PME, CST6, CystatinB CHROW21, CPI B, CYTB, EPM1, Liver thiol proteinase inhibitor, STFB.

**Additional Information**

This product was produced from tissue culture supernatant.

## PRODUCT SPECIFICATION

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**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 Cystatin B (1-98aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity.

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Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

## 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

CSTB, also known as Cystatin B is an anti-protease implicated in myoclonus epilepsy, a degenerative disease of the central nervous system. The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. This protein is able to form a dimer stabilized by noncovalent forces and is thought to play a role in protecting against the proteases leaking from lysosomes in cells. CSTB is located in the lysosomes and the cytoplasm, but also in the nucleus.

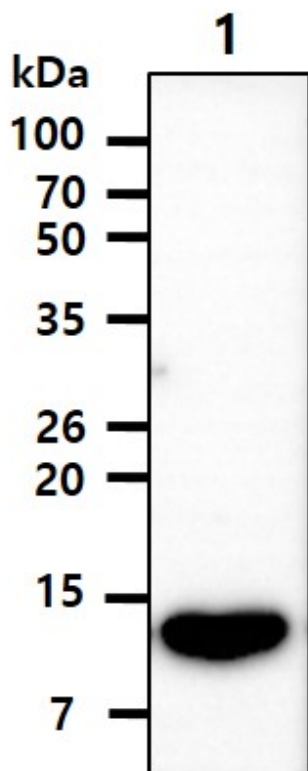
### General References

Turk V, et al., (1991) FEBS Lett. 285(2):213-9

Jarvinen M, et al., (1988) Acta Histochem. 82(1):5-18

## DATA

### Western blot analysis (WB)

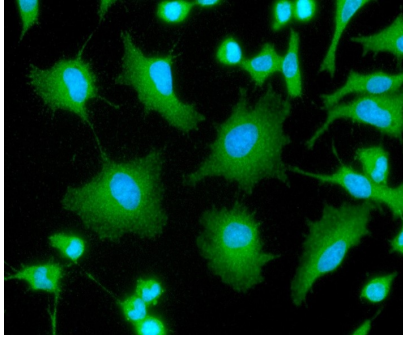


The cell lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cystatin B antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.  
Lane 1.: U87MG cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of Cystatin B in A549 cells. The cell was stained with ATGA0534 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).