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# **Human Cystatin B antibody**

Catalog Number: ACS0820

## **PRODUCT INFORMATION**

## Catalog number

ACS0820

#### 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

## **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 CSTB (1-98aa) purified from E. coli

## Isotype

IgG2b kappa

## **Purification Note**

By protein-G 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. 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**

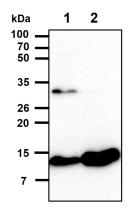
CSTB, also known as Cystatin B is an anti-protease implicated in myoclonus epilepsy, a degenerative disease of the central nervous system. The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. This protein is able to from 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**

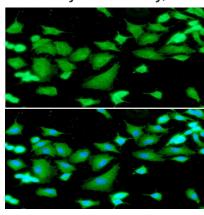
## Western blot analysis (WB)



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

Lane 1.: A549 cell lysate (35ug) Lane 2.: U87MG cell lysate (40ug)

## Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of CSTB in A549 cells. The cell was stained with ACS0820 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

