

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

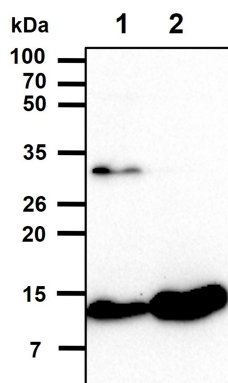
CSTB, also known as Cystatin B is an anti-protease implicated in myoclonus epilepsy, a degenerative disease of the central nervous system. The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others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

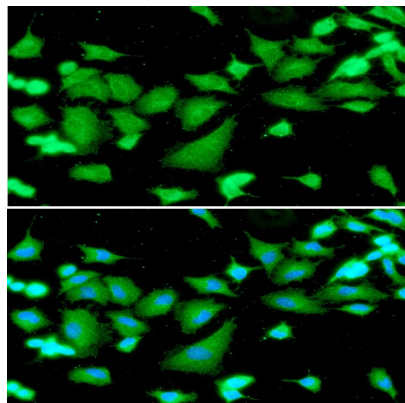
DATA

Western blot analysis (WB)



The cell 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).