PRODUCT INFORMATION

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

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.



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

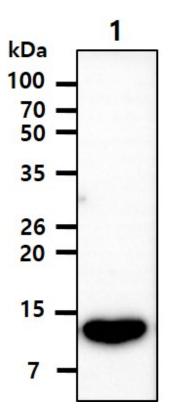
CSTB, also known as Cystatin B is an anti-protease implicated in myoclonus epilepsy, a degenerative disease of the central nervous system. The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others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

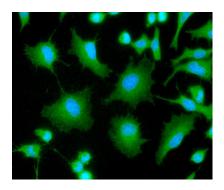
Western blot analysis (WB)



The cell 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).

