**NKMAXBiO** We support you, we believe in your research **Human Cystatin A antibody** Catalog Number: ATGA0432

### **PRODUCT INFORMATION**

Catalog number ATGA0432

Clone No. AT1B12

**Product type** Monoclonal Antibody

**UnitProt No.** P01040

NCBI Accession No. NP\_005204

Alternative Names Cystatin-A, STF1, STFA

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

# lsotype

lgG1 kappa

**Purification Note** By protein-A affinity chromatography

### Application

ELISA, WB, ICC/IF

# Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF 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

CSTA, also known as Stefin A, is thiol protease inhibitors that form complexes with papain and the cathepsins B, H and L. The protein is one of the precursor proteins of the cornified cell envelope in keratinocytes and plays a role in epidermal development and maintenance. CSTA is thought to be a tumor suppressor, since an inverse correlation seems to exist between the level of CSTA and tumor progression, in several malignancies.

#### **General References**

Takai T., et al. (2009) J Immuno. 183(12): 7958-65. Sinha AA., et al. (2008) Anticancer Res. 28(4B): 2271-7.

### DATA

#### Western blot analysis (WB)



The A431 cell lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CSTA antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of CSTA in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CSTA antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

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