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## **Human Cathepsin S antibody**

Catalog Number: ATGA0264

## **PRODUCT INFORMATION**

## Catalog number

ATGA0264

#### Clone No.

AT1F9

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P25774

#### **NCBI Accession No.**

NP 004070

#### **Alternative Names**

Cathepsin S, MGC3886

## **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 CTSS (17-331aa) 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**



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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**

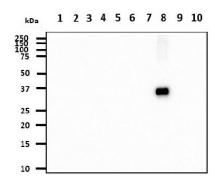
CTSS (Cathepsin S) is a lysosomal enzyme that belongs to the papain family of cysteine proteases. This protein is expressed by antigen presenting cells including macrophages, B-lymphocytes, dendritic cells and microglia. Moreover, CTSS is expressed in some epithelial cells. In contrast, cortical thymic epithelial cells do not express CTSS. Normal epidermal keratinocytes do not express CTSS. However, level of CTSS is elevated in psoriatic keratinocytes due to stimulation by proinflammatory factors. CTSS can function as an elastase over a broad pH range in alveolar macrophages.

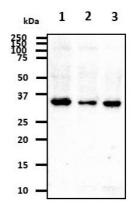
## **General References**

Shi. G.P., et al. (1994) J Biol Chem 269: 11530-11536. Lemere. C.A., et al. (1995) Am J Pathol 146(4): 848-860. Shi. G.P., et al. (1992) J Biol Chem 267(11): 7258-7262.

#### **DATA**

## Western blot analysis (WB)





The recombinant proteins (20ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CTSS antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant Human CTSB

Lane 2.: Recombinant Human CTSD

Lane 3.: Recombinant Human CTSE

Lane 4.: Recombinant Human CTSF

Lane 5.: Recombinant Human CTSH

Lane 6.: Recombinant Human CTSK

Lane 7.: Recombinant Human CTSL

Lane 8.: Recombinant Human CTSS

Lane 9.: Recombinant Human CTSW

Lane 10.: Recombinant Human CTSZ

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CTSS antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: U87MG cell lysate Lane 3.: A549 cell lysate

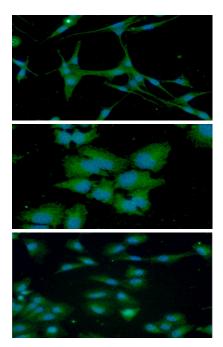
Immunocytochemistry/Immunofluorescence (ICC/IF)



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ICC/IF analysis of CTSS in U87MG cells. The cell was stained with ATGA0264 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ICC/IF analysis of CTSS in HeLa cells. The cell was stained with ATGA0264 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ICC/IF analysis of CTSS in A549 cells. The cell was stained with ATGA0264 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

