

Human Cathepsin L antibody

Catalog Number: ACT0905

PRODUCT INFORMATION

Catalog number

ACT0905

Clone No.

AT18F6

Product type

Monoclonal Antibody

UnitProt No.

P07711

NCBI Accession No.

NP_001244901

Alternative Names

Procathepsin L, Cathepsin L1, Major excreted protein, MEP, CTSL, CTSL1

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 CTSL (18-333aa) purified from E. coli.

Isotype

IgG2a kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS 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

Cathepsin L, a lysosomal endopeptidase expressed in most eukaryotic cells, is a member of the papain-like family of cysteine proteinases. Cathepsin L can be induced by many different signaling events, including growth factor, secondary messenger and tumor promoters. Cathepsin L is translated as preprocathepsin L, transferred through the Golgi apparatus as procathepsin L and then stored in lysosomes as mature cathepsin L.

General References

Zheng X., et al (2009) *Am J Physiol Cell Physiol.* 296(1): 65-74.

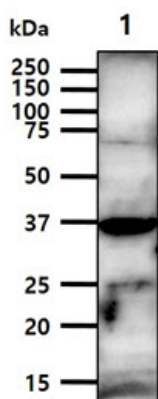
Reinheckel T., et al (2005) *J Cell Sci.* 118: 3387-95.

Ishidoh K., Kominami E. (2002) *Biol chem.* 383(12): 1827-31.

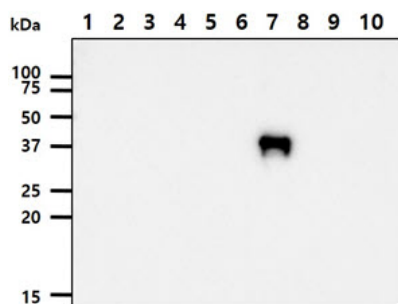
Roth W., et al (2000) *FASEB J.* 14(13): 2075-86.

DATA

Western blot analysis (WB)



The cell lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CTSL 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

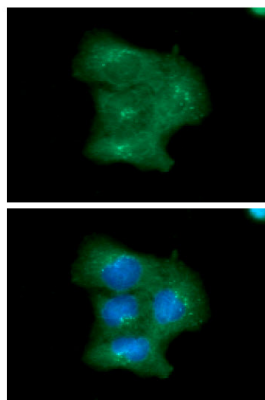


The recombinant proteins (20ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CTSL antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
 Lane 1.: CTSB recombinant protein
 Lane 2.: CTSD recombinant protein
 Lane 3.: CTSE recombinant protein
 Lane 4.: CTSF recombinant protein
 Lane 5.: CTSH recombinant protein
 Lane 6.: CTSK recombinant protein
 Lane 7.: CTSL recombinant protein
 Lane 8.: CTSS recombinant protein
 Lane 9.: CTSW recombinant protein
 Lane 10.: CTSZ recombinant protein

Immunocytochemistry/Immunofluorescence (ICC/IF)

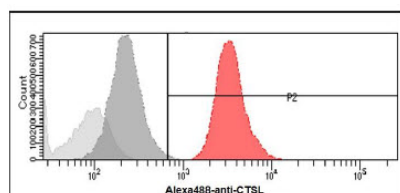
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ICC/IF analysis of CTSL in A549 cells. The cell was stained with ACT0905 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of CTSL in A549 cells. The cell was stained with ACT0905 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).