Product Information

Human Cathepsin L antibody

Catalog Number: IBACT0905

PRODUCT INPORMATION

Catalog number
ACT0905

Clone No.
AT18F6

Product type
Monoclonal Antibody

UnitProt No.
P07711

NCBI Accession No.
NP_001244901

Alternative Names
cathepsin L1 preproprotein, cathepsin L1, cathepsin L, CATL, CTSL, FLJ31037, Major excreted protein

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

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com

Product Information

Human Cathepsin L antibody

Catalog Number: IBACT0905

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

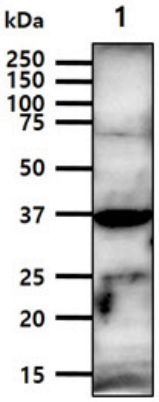
Cathepsin L, a lysosomal endopeptidase expressed in most eukaryotic cells, is a member of the papain-like family of cysteine proteinases. Cathepsin L can be induced by many different signaling events, including growth factor, secondary messenger and tumor promoters. Cathepsin L is translated as preprocathepsin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

General References

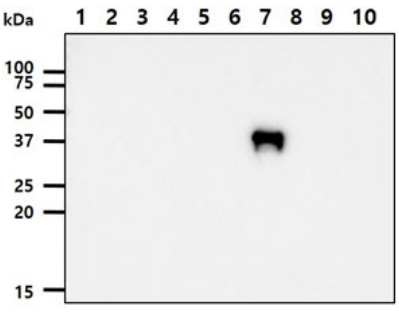
Zheng X., et al (2009) Am J Physiol Cell Physiol. 296(1): 65-74.
Reinheckel T., et al (2005) J Cell Sci. 118: 3387-95.
Ishidoh K., Kominami E. (2002) Biol chem. 383(12): 1827-31.
Roth W., et al (2000) FASEB J. 14(13): 2075-86.

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

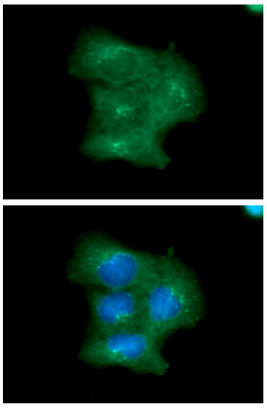
Immunoflorense (ICC/IF)

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com

Product Information

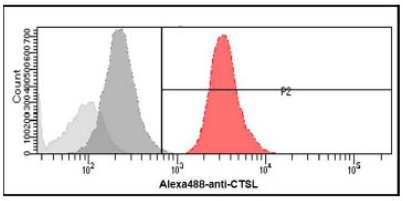
Human Cathepsin L antibody

Catalog Number: IBACT0905



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 1x10^6cells (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).

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com