

For Research Use Only

Cathepsin L Monoclonal antibody

Catalog Number: 66914-1-Ig

Featured Product

5 Publications



Basic Information

Catalog Number:

66914-1-Ig

GenBank Accession Number:

BC012612

Purification Method:

Protein A purification

Size:

150ul, Concentration: 1400 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

GeneID (NCBI):

1514

CloneNo.:

1A12G8

UNIPROT ID:

P07711

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:500-1:2000

IF/ICC 1:400-1:2000

Source:

Mouse

Full Name:

cathepsin L1

Isotype:

IgG2b

Calculated MW:

38 kDa

Immunogen Catalog Number:

AG27951

Observed MW:

43 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Positive Controls:

WB: A549 cells, NCI-H1299 cells, HUVEC cells, HepG2 cells, HeLa cells

Cited Applications:

WB, IHC

IHC: human prostate cancer tissue,

Species Specificity:

human

IF/ICC: HEK-293 cells,

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

CTSL1(Cathepsin L1) is also named as CTSL and MEP, belongs to the peptidase C1 family. It is a lysosomal proteinase whose expression is also up-regulated in the skeletal muscle during starvation(PMID:20088826). It plays an intracellular role in normal intestinal epithelial polarization and initiation of neoplasia(PMID:17622569). CTSL1 also improves cardiac function and inhibits cardiac hypertrophy, inflammation, and fibrosis through blocking AKT/GSK3B signaling(PMID:19096818). The full length protein is 38 kDa with a signal peptide, two propeptide and a glycosylation site. It has been detected the 36 kDa, 39 kDa, 29 kDa and 21 kDa in rat gastrocnemius muscle. These forms of cathepsin L could either be attributed to differences in glycosylation or to partial processing of the proenzyme. (PMID:11696001)

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|----------------|-------------|
| Pingping Liu | 36382580 | Cancer Sci | WB |
| Lexuan Bi | 39864211 | Tissue Cell | IHC |
| Fujun Dai | 39632400 | Chem Biodivers | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

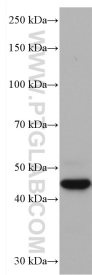
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

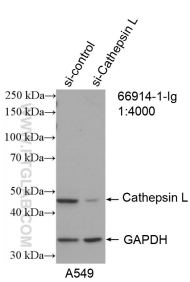
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

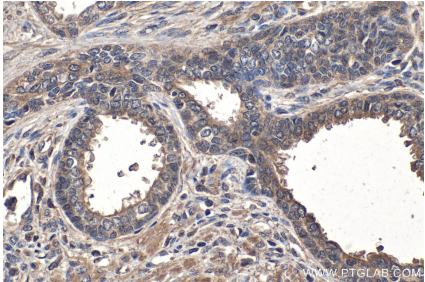
Selected Validation Data



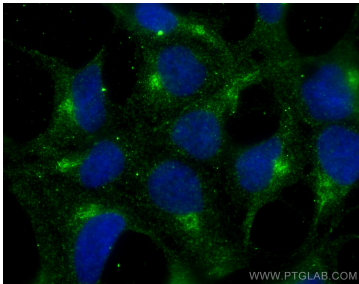
A549 cells were subjected to SDS PAGE followed by western blot with 66914-1-Ig (Cathepsin L antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



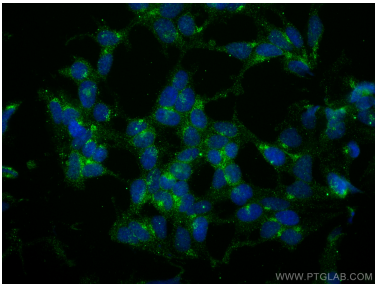
WB result of Cathepsin L antibody (66914-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cathepsin L transfected A549 cells.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66914-1-Ig (Cathepsin L antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using Cathepsin L antibody (66914-1-Ig, Clone: 1A12G8) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using Cathepsin L antibody (66914-1-Ig, Clone: 1A12G8) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).