### For Research Use Only

# Cathepsin L Polyclonal antibody

Catalog Number: 27952-1-AP

Featured Product

7 Publications



**Basic Information** 

Catalog Number: 27952-1-AP

GenBank Accession Number:

BC012612

GeneID (NCBI): Size:

150ul , Concentration: 450 ug/ml by Nanodrop:

**UNIPROT ID:** P07711 Rabbit Full Name: Isotype: cathepsin L1 IgG Calculated MW:

Immunogen Catalog Number: 38 kDa AG27813

Observed MW: 36-39 kDa, 29 kDa **Purification Method:** Antigen affinity purification Recommended Dilutions:

WB 1:500-1:1000 IHC 1:50-1:500

**Applications** 

**Tested Applications:** 

WB, IHC, ELISA

**Cited Applications:** 

WB, IHC, IF

Species Specificity:

Human, mouse

**Cited Species:** 

human, mouse

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

Positive Controls:

WB: A549 cells,

IHC: human liver cancer tissue,

## **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
Huixia Fan	35935881	Front Pharmacol	IHC
Xueying Wang	39893643	J Cell Mol Med	WB,IHC,IF
Minghao Sui	39842473	Pharmacol Res	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

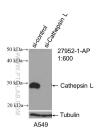
For technical support and original validation data for this product please contact:

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

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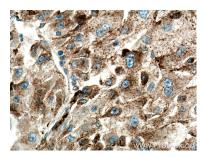
## **Selected Validation Data**



WB result of Cathepsin L antibody (27952-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cathepsin L transfected A549 cells.



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 27952-1-AP (Cathepsin Lantibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 27952-1-AP (Cathepsin Lantibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



A549 cells were subjected to SDS PAGE followed by western blot with 27952-1-AP (Cathepsin L antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.