For Research Use Only

Cathepsin L Polyclonal antibody

Catalog Number:10938-1-AP Featured Product 10 Publications

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Basic Information

Catalog Number:
10938-1-AP

Size:
147 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1373

GenBank Accession Number:
BC012612

GeneID (NCBI):
1514

UNIPROT ID:
P07711

Full Name:
cathepsin L1

Calculated MW:
38 kDa

Observed MW:
36-39 kDa, 29 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:200-1:1000
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
IF/ICC, IHC, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human

Cited Species:
human

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 skin tissue,

IF : HepG2 cells,

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

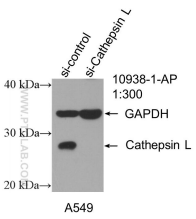
Author	Pubmed ID	Journal	Application
Jana Ihlow	34479499	BMC Infect Dis	IHC
Peng Liu	31632196	Cancer Cell Int	WB
Qiang Dong	34807310	J Cancer Res Clin Oncol	WB

Storage

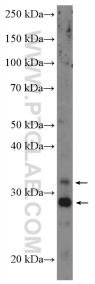
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

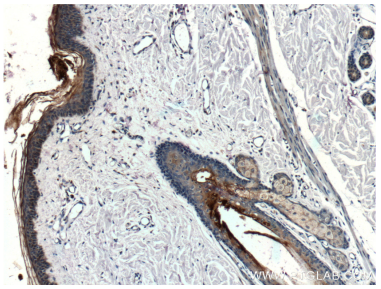
Selected Validation Data



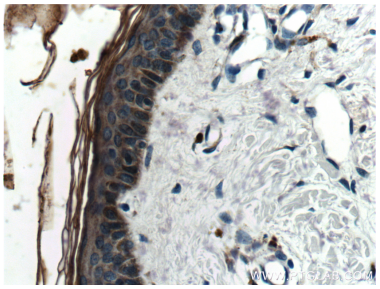
WB result of Cathepsin L antibody (10938-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cathepsin L transfected A549 cells.



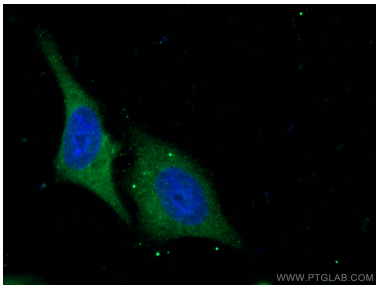
A549 cells were subjected to SDS PAGE followed by western blot with 10938-1-AP (Cathepsin L Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skin tissue slide using 10938-1-AP (Cathepsin L Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skin tissue slide using 10938-1-AP (Cathepsin L Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 10938-1-AP (Cathepsin L antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).