

For Research Use Only

CD107a / LAMP1 Polyclonal antibody

Catalog Number: 21997-1-AP

138 Publications



Basic Information

Catalog Number:

21997-1-AP

Concentration:

800 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17367

GenBank Accession Number:

BC021288

GeneID (NCBI):

3916

ENSEMBL Gene ID:

ENSG00000185896

UNIPROT ID:

P11279

Full Name:

lysosomal-associated membrane protein 1

Calculated MW:

45 kDa

Observed MW:

90-120 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:50-1:500

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC, IP, CoIP

Species Specificity:

human

Cited Species:

human, pig, monkey, zebrafish, bovine, turtle

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 : HepG2 cells, U937 cells

IHC : human liver cancer tissue, human placenta tissue, human gliomas tissue, human pancreas tissue

IF-P : human ovary tumor tissue,

Background Information

LAMP1 (also known as CD107a) is a 90-120 kDa heavily glycosylated membrane protein enriched in the lysosomal membrane. LAMP1 functions to provide selectins with carbohydrate ligands. This protein has also been shown to be a marker of degranulation on lymphocytes such as CD8+ and NK cells and may also play a role in tumor cell differentiation and metastasis.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------|-----------|-------------------|-------------|
| Wei Cai | 36170234 | Autophagy | |
| Yong Fan | 34560177 | Food Chem Toxicol | WB |
| Jie Liu | 36096243 | Life Sci | WB |

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

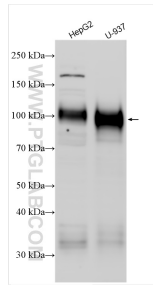
T: 4006900926

E: Proteintech-CN@ptglab.com

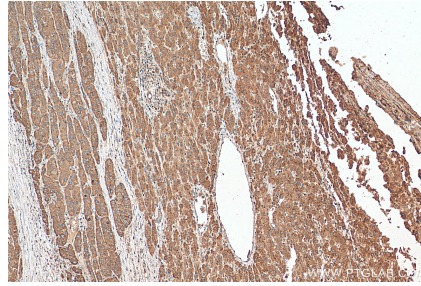
W: ptgcn.com

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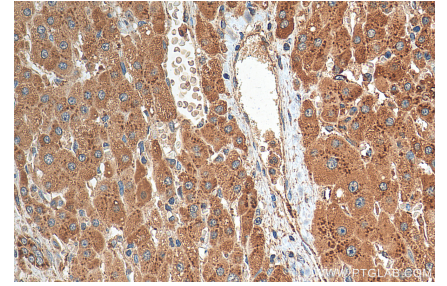
Selected Validation Data



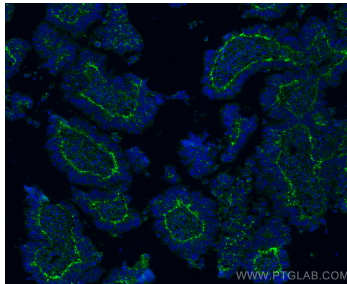
Various lysates were subjected to SDS PAGE followed by western blot with 21997-1-AP (CD107a / LAMP1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 21997-1-AP (LAMP1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 21997-1-AP (LAMP1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human ovary tumor tissue using CD107a / LAMP1 antibody (21997-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).