

For Research Use Only

# CD107a / LAMP1 Monoclonal antibody

Catalog Number: 67300-1-Ig **23 Publications**



## Basic Information

<b>Catalog Number:</b> 67300-1-Ig	<b>GenBank Accession Number:</b> BC021288	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1100 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3916	<b>CloneNo.:</b> 3B2E9
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000185896	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:50-1:500 IF-P 1:200-1:800
<b>Isotype:</b> IgG2b	<b>UNIPROT ID:</b> P11279	
<b>Immunogen Catalog Number:</b> AG28869	<b>Full Name:</b> lysosomal-associated membrane protein 1	
	<b>Calculated MW:</b> 45 kDa	
	<b>Observed MW:</b> 90-120 kDa	

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Cited Applications:

WB

### Species Specificity:

human

### Cited Species:

human, bovine

**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:** HT-1080 cells, HeLa cells, HepG2 cells, Jurkat cells, THP-1 cells, MDA-MB-231 cells, JAR cells, K-562 cells, U-937 cells

**IHC:** human liver cancer tissue, human lung cancer tissue

**IF-P:** human liver cancer tissue, human liver 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
Zhouyangfan Peng	36131930	Front Immunol	WB
Hongzhu Zhang	39986118	Redox Biol	
Maoxing Fei	39915357	Mol Neurobiol	

## 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

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

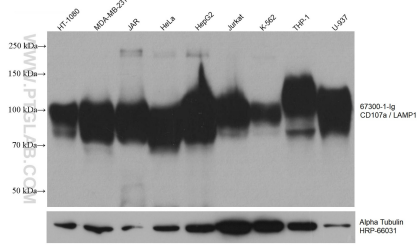
For technical support and original validation data for this product please contact:

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

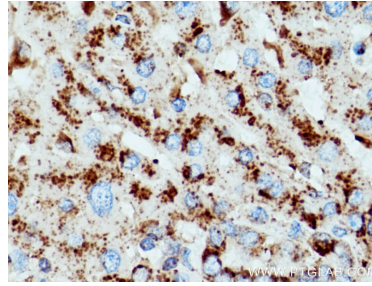
E: proteintech@ptglab.com  
W: ptglab.com

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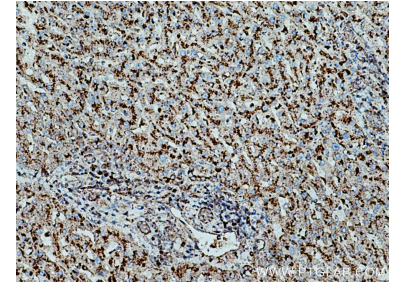
## Selected Validation Data



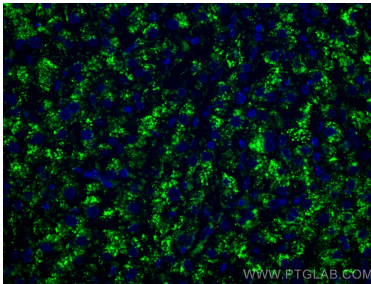
Various lysates were subjected to SDS PAGE followed by western blot with 67300-1-Ig (CD107a antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



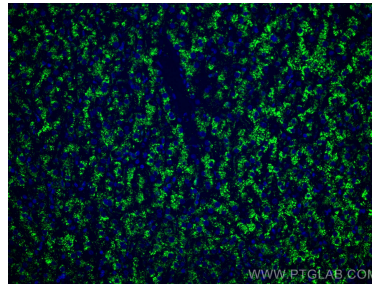
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67300-1-Ig (CD107a antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



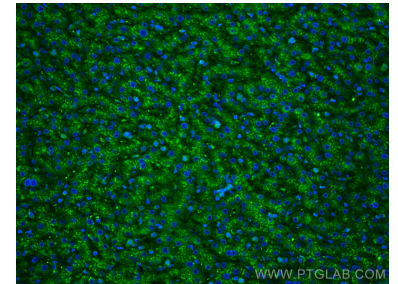
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67300-1-Ig (CD107a antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using CD107a antibody (67300-1-Ig, Clone: 3B2E9) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using CD107a antibody (67300-1-Ig, Clone: 3B2E9) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human liver tissue using CD107a / LAMP1 antibody (67300-1-Ig, Clone: 3B2E9) at dilution of 1:400 and Multi-rAb CoraLite@ Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).