For Research Use Only

LAMP3 Polyclonal antibody

Catalog Number:12632-1-AP Featured Product 23 Publications

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Basic Information

Catalog Number:
12632-1-AP

Size:
150ul , Concentration: 400 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3325

GenBank Accession Number:
BC032940

GeneID (NCBI):
27074

UNIPROT ID:
Q9UQV4

Full Name:
lysosomal-associated membrane protein 3

Calculated MW:
416 aa, 44 kDa

Observed MW:
70 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:8000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF/ICC 1:200-1:800

Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, monkey

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 : A375 cells, mouse thymus tissue, rat lung tissue, A549 cells, mouse lung tissue, HEK-293T cells, Raji cells

IP : A549 cells,

IHC : human lung tissue, human placenta tissue, human testis tissue

IF/ICC : A549 cells,

Background Information

LAMP3 (lysosome-associated membrane protein 3), also known as DC-LAMP (DC-lysosome-associated membrane glycoprotein), TSC403 or CD208, is a highly glycosylated lysosomal membrane protein that belongs to the LAMP family. The mature glycoprotein has an apparent molecular mass of 70-90 kDa, which is considerably larger than its predicted mass of 44 kDa (PMID: 9768752). LAMP3 is expressed in lung type II pneumocytes, lymphoid organs and dendritic cells. It might change the lysosome function after the transfer of peptide-MHC class II molecules to the surface of dendritic cells. LAMP3 mRNA is up-regulated in some human cancers (PMID:9721848). LAMP3 overexpression is associated with an enhanced metastatic potential and may be a prognostic factor for cervical cancer (PMID: 16204031).

Notable Publications

Author	Pubmed ID	Journal	Application
Carlos López	32953267	PeerJ	IHC
Behzad Yeganeh	25361566	Am J Physiol Lung Cell Mol Physiol	IF
Zhichang Zhang	36305631	Clin Transl Med	IF

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)
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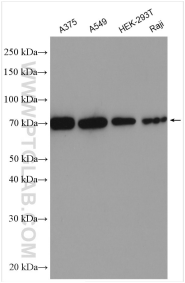
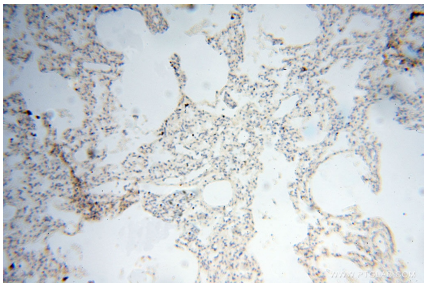
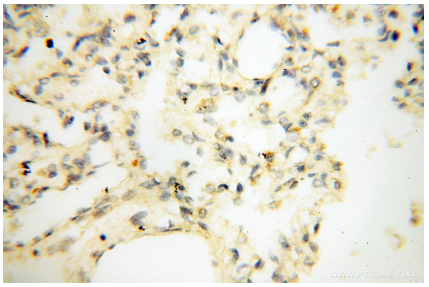
Selected Validation Data



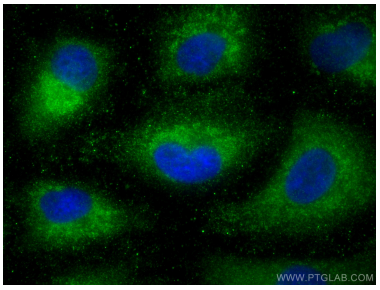
Various lysates were subjected to SDS PAGE followed by western blot with 12632-1-AP (LAMP3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



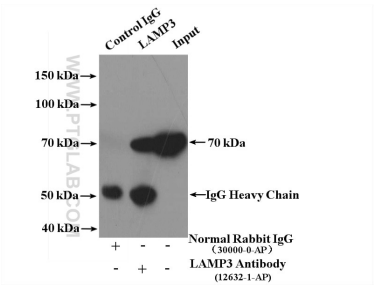
Immunohistochemical analysis of paraffin-embedded human lung using 12632-1-AP (LAMP3 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lung using 12632-1-AP (LAMP3 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using LAMP3 antibody (12632-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



IP result of anti-LAMP3 (IP:12632-1-AP, 4ug; Detection:12632-1-AP 1:500) with A549 cells lysate 2800ug.