

For Research Use Only

LAMP3 Polyclonal antibody

Catalog Number: 12632-1-AP

Featured Product

24 Publications



Basic Information

Catalog Number:

12632-1-AP

Concentration:

400 ug/ml

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: 1:50-1:500

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

IP: A549 cells,

IHC: human lung 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

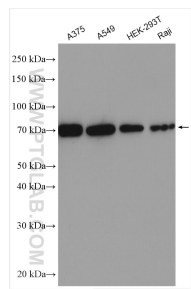
T: 4006900926

E: Proteintech-CN@ptglab.com

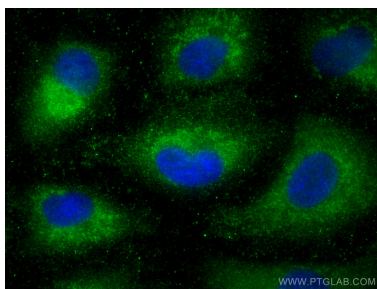
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

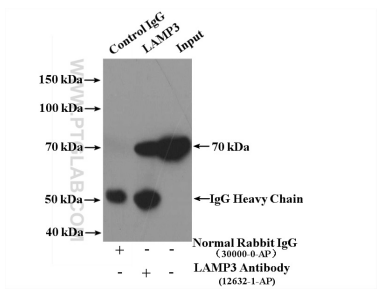
Selected Validation Data



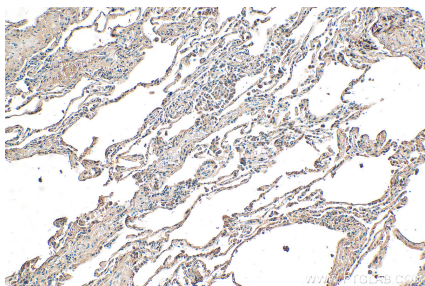
Various lysates were subjected to SDS PAGE followed by western blot with 12632-1-AP (LAMP3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



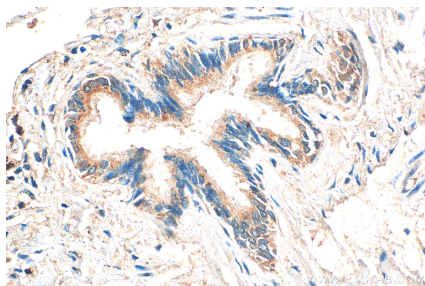
Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using LAMP3 antibody (12632-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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



Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 12632-1-AP (LAMP3 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 lung tissue slide using 12632-1-AP (LAMP3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).