

For Research Use Only

LGMN Polyclonal antibody

Catalog Number: 15095-1-AP



Basic Information

Catalog Number: 15095-1-AP	GenBank Accession Number: BC003061	Purification Method: Antigen affinity purification
Size: 550 µg/ml	GeneID (NCBI): 5641	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q99538	
Isotype: IgG	Full Name: legumain	
Immunogen Catalog Number: AG7170	Calculated MW: 49 kDa	
	Observed MW: 36 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, mouse

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 : COLO 320 cells, HEK-293 cells, HeLa cells, mouse kidney tissue

IHC : mouse kidney tissue,

Background Information

LGMN (Legumain), also known as asparaginyl endopeptidase or AEP, is a broadly expressed lysosomal cysteine endopeptidase that belongs to peptidase family C13 and specifically hydrolyzes substrate asparaginyl bonds (PMID: 9065484). LGMN directly regulates diverse physiological and pathological processes by remodeling tissue-specific targets (PMID: 25205715, 21292981, 18820679). In addition, LGMN indirectly contributes to atherosclerotic plaque instability through activation of cathepsin L in the arterial ECM (PMID: 19671471, 18377911). LGMN is secreted as inactive prolegumain (56 kDa) and processed into enzymatically active 46 and 36 kDa forms, as well as a 17 kDa enzymatically inactive C-terminal fragment (PMID: 28162997, PMID: 19671471).

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:

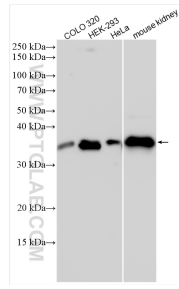
T: 4006900926

E: Proteintech-CN@ptglab.com

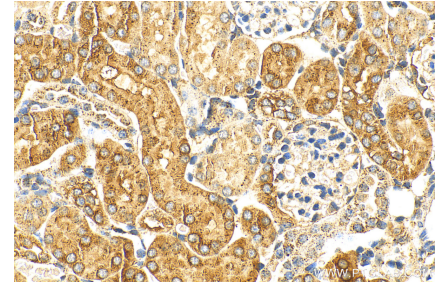
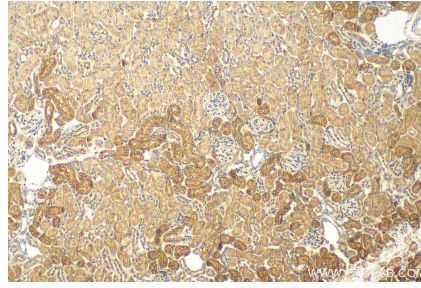
W: ptgcn.com

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 15095-1-AP (LGMN antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 15095-1-AP (LGMN 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 mouse kidney tissue slide using 15095-1-AP (LGMN antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).