

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: 150ul , Concentration: 550 ug/ml by Nanodrop;	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	Positive Controls:
Species Specificity: human, mouse	WB : COLO 320 cells, HEK-293 cells, HeLa cells, mouse kidney tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

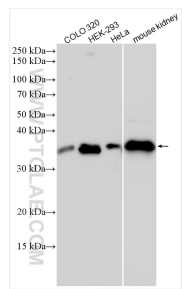
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

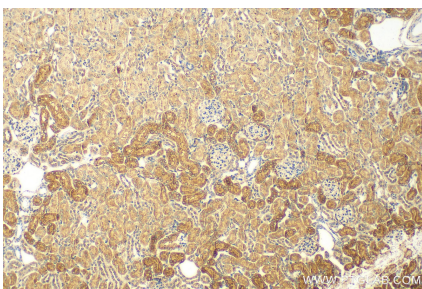
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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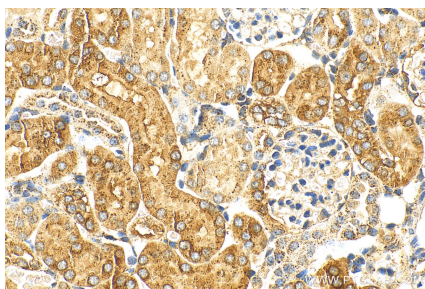
Selected Validation Data



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).