

For Research Use Only

CoraLite® Plus 488-conjugated LGMN Monoclonal antibody



Catalog Number: CL488-67017

Basic Information

Catalog Number: CL488-67017	GenBank Accession Number: BC003061	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 5641	CloneNo.: 1F2B12
Source: Mouse	UNIPROT ID: Q99538	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Full Name: legumain	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG7218	Calculated MW: 49 kDa	
	Observed MW: 36 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF : human kidney tissue,
Species Specificity: Human	

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. Avoid exposure to light.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

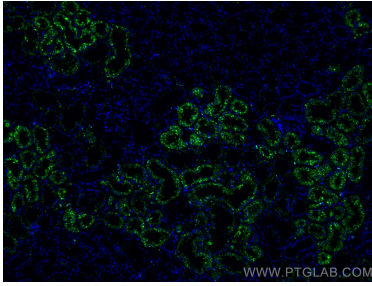
T: 4006900926

E: Proteintech-CN@ptglab.com

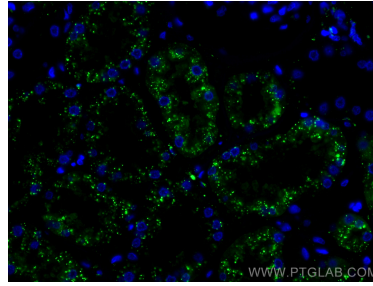
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using CoraLite® Plus 488 LGMN antibody (CL488-67017, Clone: 1F2B12) at dilution of 1:200.



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