DATASHEET

LGMN Mouse Monoclonal Antibody(ARA487)

CAT. NO. ARA5799

KEY FEATURES

Target	LGMN	**Source / Host**	Mouse
Reactivity	Human, Mouse, Pig	**Clonality**	Monoclonal
Applications	WB,IHC,IF/ICC,ELISA	**Conjugation**	Unconjugated
Isotype	IgG1	**Storage**	at -20°C

BACKGROUND

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).

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:5,000 - 1:50,000
IHC	1:150 - 1:600
IF/ICC	1:200 - 1:800
ELISA	Assay-dependent

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Mouse monoclonal antibody to LGMN for WB, IHC, IF/ICC and ELISA.
Specificity	Recognizes endogenous levels of LGMN protein
Antibody Type	Primary antibody
Immunogen	Recombinant human LGMN protein (amino acids 82-433) expressed in E. coli with 6*His tag.
Molecular Weight	Predicted: 49 kDa; Observed: 36 kDa
Purification	Protein G purification
Isotype	IgG1
Form/Buffer	Liquid in PBS (pH 7.3) with 0.02% sodium azide and 50% glycerol.
Alternative Names	Legumain, PRSC1, EC:3.4.22.34
Gene Symbol	LGMN
Entrez Gene	5641 (Human); 19141 (Mouse); 100154477 (Pig)
SwissProt	Q99538 (Human); O89017 (Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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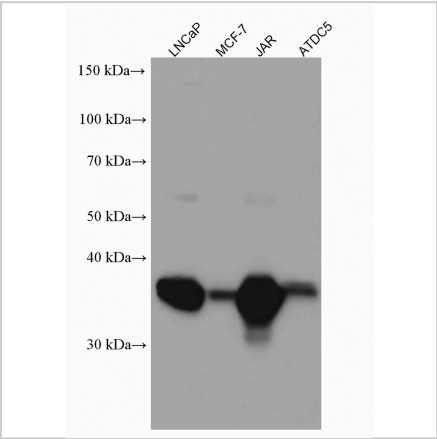
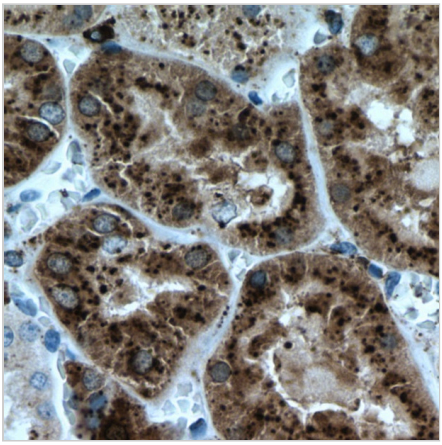
DATA

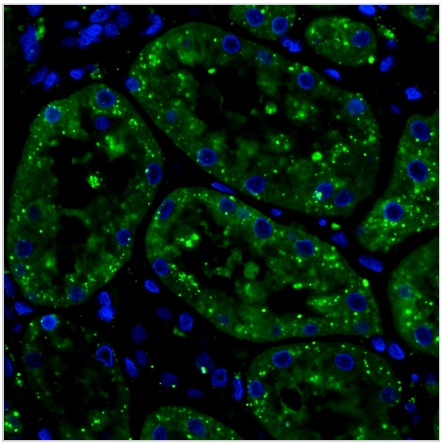


Western blot analysis of LGMN in LNCaP, MCF-7, JAR and ATDC5 cell lysates with LGMN Mouse Monoclonal Antibody(ARA487) at 1:5,000 dilution. The membrane was incubated at room temperature for 1.5 hours.

Predicted band size: 49 kDa
Observed band size: 36 kDa



Immunohistochemical analysis of paraffin-embedded human kidney tissue with LGMN Mouse Monoclonal Antibody(ARA487) at 1:300 dilution (40x lens). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of 4% PFA-fixed human kidney tissue with LGMN Mouse Monoclonal Antibody(ARA487) at 1:400 dilution and AREX® Fluor 488-conjugated Goat Anti-Mouse IgG (H+L). Nuclear DNA was labelled with DAPI (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com