

# Legumain (LGMN) Rabbit pAb

Catalog No.: A10570 **2 Publications**

## Basic Information

### Observed MW

36 kDa/55 kDa

### Calculated MW

49 kDa

### Category

Primary antibody

### Applications

WB, IF/ICC, IHC-P, ELISA

### Cross-Reactivity

Human, Mouse, Rat

## Background

This gene encodes a cysteine protease that has a strict specificity for hydrolysis of asparaginyl bonds. This enzyme may be involved in the processing of bacterial peptides and endogenous proteins for MHC class II presentation in the lysosomal/endosomal systems. Enzyme activation is triggered by acidic pH and appears to be autocatalytic. Protein expression occurs after monocytes differentiate into dendritic cells. A fully mature, active enzyme is produced following lipopolysaccharide expression in mature dendritic cells. Overexpression of this gene may be associated with the majority of solid tumor types. This gene has a pseudogene on chromosome 13. Several alternatively spliced transcript variants have been described, but the biological validity of only two has been determined. These two variants encode the same isoform.

## Recommended Dilutions

|               |                                                                                                                             |
|---------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>WB</b>     | 1:500 - 1:5000                                                                                                              |
| <b>IF/ICC</b> | 1:50 - 1:200                                                                                                                |
| <b>IHC-P</b>  | 1:50 - 1:200                                                                                                                |
| <b>ELISA</b>  | Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. |

## Immunogen Information

### Gene ID

5641

### Swiss Prot

Q99538

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

AEP; LGMN1; PRSC1; Legumain (LGMN)

## Contact

|   |                           |
|---|---------------------------|
| ☎ | 400-999-6126              |
| ✉ | cn.market@abclonal.com.cn |
| 🌐 | www.abclonal.com.cn       |

## Product Information

### Source

Rabbit

### Isotype

IgG

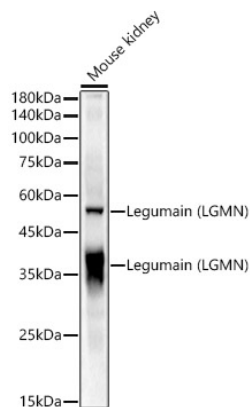
### Purification

Affinity purification

### Storage

Store at -20°C

## Validation Data



Western blot analysis of lysates from Mouse kidney, using Legumain (LGMN) Rabbit pAb (A10570) at 1:600 dilution.

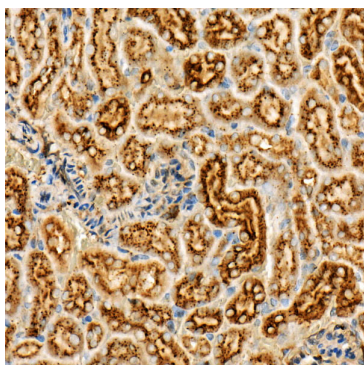
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

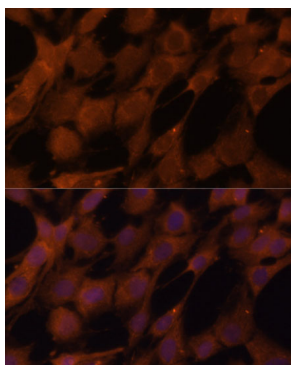
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

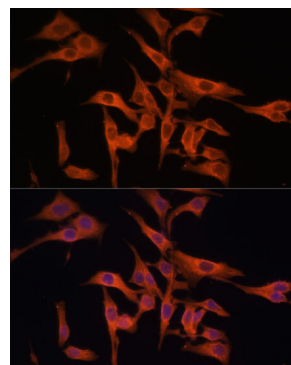
Exposure time: 90s.



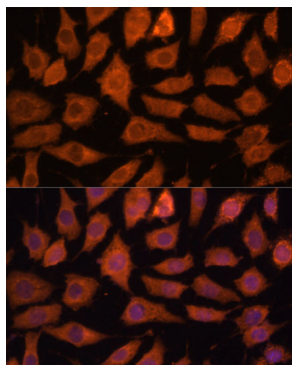
Immunohistochemistry analysis of paraffin-embedded Mouse kidney using Legumain (LGMN) Rabbit pAb (A10570) at dilution of 1:50 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of C6 cells using Legumain (LGMN) Rabbit pAb (A10570) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using Legumain (LGMN) Rabbit pAb (A10570) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of L929 cells using Legumain (LGMN) Rabbit pAb (A10570) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.