

**KD-Validated Anti-Legumain Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI2191****Specification****KD-Validated Anti-Legumain Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	<a href="#">Q99538</a>
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 49 kDa, observed, 36,57 kDa
Gene Name	KDa
Aliases	LGMN LGMN; Legumain; LGMN1; PRSC1; Protease, Cysteine, 1 (Legumain) ; Asparaginyl Endopeptidase; Protease, Cysteine 1; EC 3.4.22.34; Cysteine Protease 1; AEP
Immunogen	A synthesized peptide derived from human Legumain

**KD-Validated Anti-Legumain Rabbit Monoclonal Antibody - Additional Information**

Gene ID	5641
<b>Other Names</b>	
Legumain, 3.4.22.34, Asparaginyl endopeptidase, AEP, Protease, cysteine 1, LGMN {ECO:0000303 PubMed:30425301, ECO:0000312 HGNC:HGNC:9472}	

**KD-Validated Anti-Legumain Rabbit Monoclonal Antibody - Protein Information**

**Name** LGMN {ECO:0000303|PubMed:30425301, ECO:0000312|HGNC:HGNC:9472}

**Function**

Has a strict specificity for hydrolysis of asparaginyl bonds (PubMed:<a href="http://www.uniprot.org/citations/23776206" target="\_blank">23776206</a>). Can also cleave aspartyl bonds slowly, especially under acidic conditions (PubMed:<a href="http://www.uniprot.org/citations/23776206" target="\_blank">23776206</a>). Involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system (PubMed:<a href="http://www.uniprot.org/citations/9872320" target="\_blank">9872320</a>). Also involved in MHC class I antigen presentation in cross-presenting dendritic cells by mediating cleavage and maturation of Perforin-2 (MPEG1), thereby promoting antigen translocation in the cytosol (By similarity). Required for normal lysosomal protein degradation in renal proximal tubules (By similarity). Required for normal degradation of internalized EGFR (By similarity). Plays a role in the regulation of cell proliferation via its role in EGFR degradation (By similarity).

**Cellular Location**

Lysosome.

#### Tissue Location

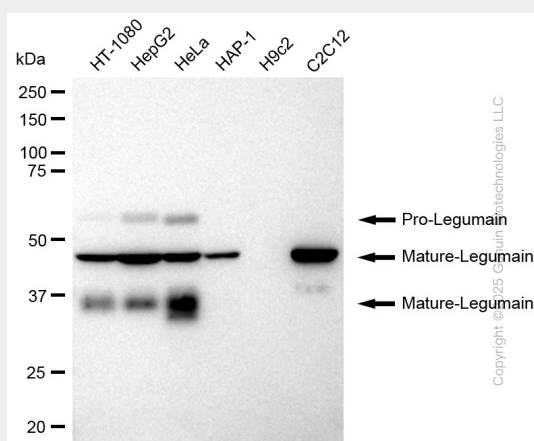
Ubiquitous. Particularly abundant in kidney, heart and placenta.

### KD-Validated Anti-Legumain Rabbit Monoclonal Antibody - Protocols

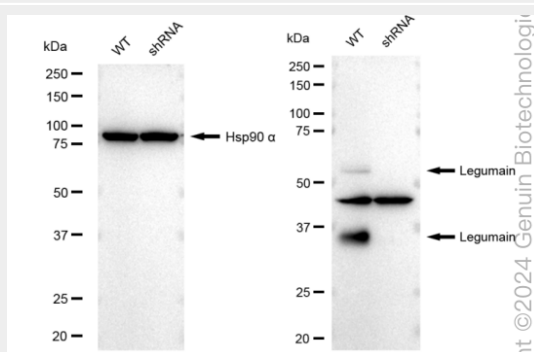
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KD-Validated Anti-Legumain Rabbit Monoclonal Antibody - Images

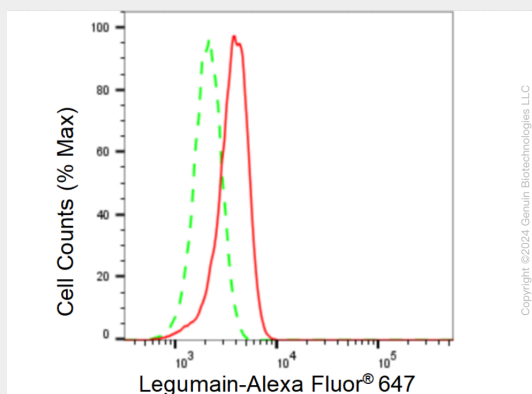


Western blotting analysis using anti-Legumain antibody (Cat#AGI2191). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Legumain antibody (Cat#AGI2191, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Legumain antibody (Cat#AGI2191). Legumain expression in wild type (WT) and legumain shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Legumain antibody.

(Cat#AGI2191, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Legumain expression in HeLa cells using Legumain antibody (Cat#AGI2191, 1:2,000). Green, isotype control; red, Legumain.