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Legumain Antibody
Rabbit mAb
Catalog # AP92308

Specification

Legumain Antibody - Product Information

Application	**WB**
Primary Accession	Q99538
Reactivity	**Rat**
Clonality	**Monoclonal**

Other Names
AEP; cysteine 1; Legumain; LGMN; LGMN1; PRSC1;

Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**49411 Da**

Legumain Antibody - Additional Information

Dilution	**WB~~1:1000**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human Legumain**
Description	**Has a strict specificity for hydrolysis of asparaginyl bonds. Can also cleave aspartyl bonds slowly, especially under acidic conditions. May be involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system.**
Storage Condition and Buffer	**Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

Legumain 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:23776206). Can also cleave aspartyl bonds slowly, especially under acidic conditions (PubMed:23776206). Involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system (PubMed:9872320). 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.

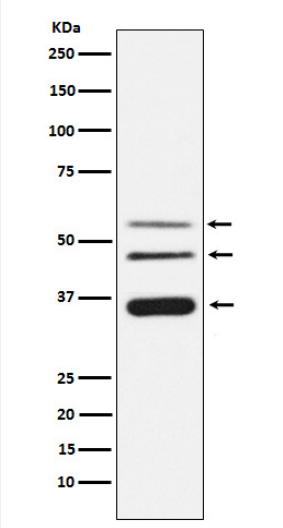
Tissue Location
Ubiquitous. Particularly abundant in kidney, heart and placenta.

Legumain 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 Cytomety
- Cell Culture

Legumain Antibody - Images



Western blot analysis of Legumain expression in HeLa cell lysate.