

## **Anti-Legumain Rabbit Monoclonal Antibody**

**Catalog # ABO15728** 

# **Specification**

## **Anti-Legumain Rabbit Monoclonal Antibody - Product Information**

Application WB
Primary Accession O99538
Host Rabbit Isotype IgG

Reactivity Rat, Human, Mouse

Clonality Monoclonal Format Liquid

**Description** 

Anti-Legumain Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse, Rat.

# Anti-Legumain Rabbit Monoclonal Antibody - Additional Information

#### **Gene ID 5641**

## **Other Names**

Legumain, 3.4.22.34, Asparaginyl endopeptidase, AEP, Protease, cysteine 1, LGMN {ECO:0000303|PubMed:30425301, ECO:0000312|HGNC:HGNC:9472}

Calculated MW 36 kDa, 57 kDa KDa

Application Details WB 1:500-1:2000

#### **Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### **Immunogen**

A synthesized peptide derived from human Legumain

# **Purification**

Affinity-chromatography

Storage Store at -20°C for one year. For short term

storage and frequent use, store at 4°C for

up to one month. Avoid repeated

freeze-thaw cycles.

## **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**

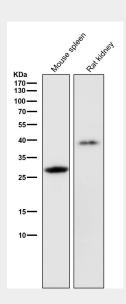
Ubiquitous. Particularly abundant in kidney, heart and placenta.

### **Anti-Legumain Rabbit Monoclonal Antibody - Protocols**

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

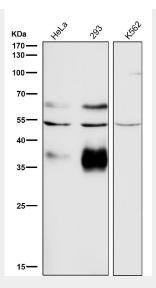
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **Anti-Legumain Rabbit Monoclonal Antibody - Images**

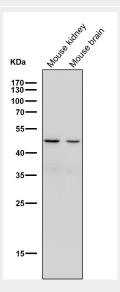


All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.

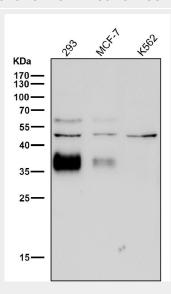




All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.

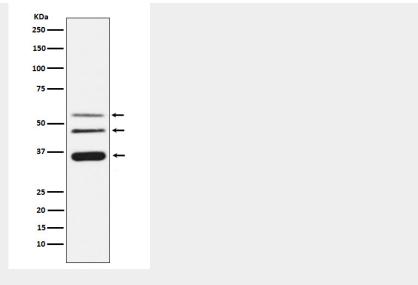


All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.





Western blot analysis of Legumain expression in HeLa cell lysate.