

KD-Validated Anti-Legumain Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2191

Product Information

Application	WB, FC
Primary Accession	Q99538
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 2095
Calculated MW	49411
Gene Name	LGMN
Aliases	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

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}

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.