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LGMN Antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI15367

Product Information

Application	WB
Primary Accession	Q99538
Other Accession	NM_005606, NP_005597
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine, Sheep
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49411

Additional Information

Gene ID	5641
Alias Symbol	AEP, LGMN1, PRSC1
Other Names	Legumain, 3.4.22.34, Asparaginyl endopeptidase, Protease, cysteine 1, LGMN, PRSC1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-LGMN antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	LGMN Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

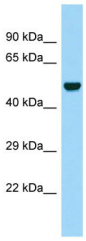
Name	LGMN {ECO:0000303|PubMed:30425301, ECO:0000312|HGNC:HGNC:9472}
Function	Has a strict specificity for hydrolysis of asparaginyl bonds (PubMed:23776206). Can also cleave aspartyl bonds slowly, especially under acidic conditions (PubMed:23776206). Involved in the processing of proteins for MHC class 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.

References

Chen J.-M.,et al.J. Biol. Chem. 272:8090-8098(1997).
Tanaka T.,et al.Cytogenet. Cell Genet. 74:120-123(1996).
Li W.B.,et al.Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.
Heilig R.,et al.Nature 421:601-607(2003).
Chen J.-M.,et al.Biochem. J. 352:327-334(2000).

Images



WB Suggested Anti-LGMN Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Brain

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.