

# LGMN Antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI15367

## Product Information

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q99538</a>
<b>Other Accession</b>	<a href="#">NM_005606</a> , <a href="#">NP_005597</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine, Sheep
<b>Predicted</b>	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine, Sheep
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	49411

## Additional Information

<b>Gene ID</b>	5641
<b>Alias Symbol</b>	AEP, LGMN1, PRSC1
<b>Other Names</b>	Legumain, 3.4.22.34, Asparaginyl endopeptidase, Protease, cysteine 1, LGMN, PRSC1
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	LGMN Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	LGMN {ECO:0000303 PubMed:30425301, ECO:0000312 HGNC:HGNC:9472}
<b>Function</b>	Has a strict specificity for hydrolysis of asparaginyl bonds (PubMed: <a href="#">23776206</a> ). Can also cleave aspartyl bonds slowly, especially under acidic conditions (PubMed: <a href="#">23776206</a> ). Involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system (PubMed: <a href="#">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.

## References

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Chen J.-M.,et al.J. Biol. Chem. 272:8090-8098(1997).

Tanaka T.,et al.Cytogenet. Cell Genet. 74:120-123(1996).

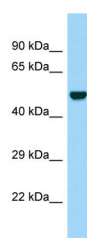
Li W.B.,et al.Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.

Heilig R.,et al.Nature 421:601-607(2003).

Chen J.-M.,et al.Biochem. J. 352:327-334(2000).

## Images

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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'.