

ARG42657 anti-Legumain antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Legumain
Tested Reactivity	Hu, Ms
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Legumain
Species	Human
Immunogen	Synthetic peptide derived from Human Legumain.
Conjugation	Un-conjugated
Alternate Names	PRSC1; AEP; Protease, cysteine 1; LGMN1; Asparaginyl endopeptidase; Legumain; EC 3.4.22.34

Application Instructions

Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>WB</td><td>1:500 - 1:2000</td></tr> </table>	Application	Dilution	WB	1:500 - 1:2000
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WB	1:500 - 1:2000				
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.				
Positive Control	Mouse kidney				
Observed Size	~ 43 kDa				

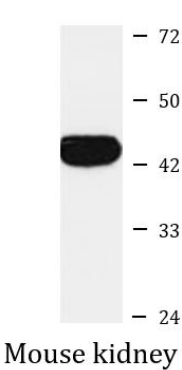
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide, 50% Glycerol and 0.05% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.05% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	LGMN
Gene Full Name	legumain
Background	<p>This gene encodes a cysteine protease that has a strict specificity for hydrolysis of asparaginyl bonds. This enzyme may be involved in the processing of bacterial peptides and endogenous proteins for MHC class II presentation in the lysosomal/endosomal systems. Enzyme activation is triggered by acidic pH and appears to be autocatalytic. Protein expression occurs after monocytes differentiate into dendritic cells. A fully mature, active enzyme is produced following lipopolysaccharide expression in mature dendritic cells. Overexpression of this gene may be associated with the majority of solid tumor types. This gene has a pseudogene on chromosome 13. Several alternatively spliced transcript variants have been described, but the biological validity of only two has been determined. These two variants encode the same isoform. [provided by RefSeq, Jul 2008]</p>
Function	<p>Has a strict specificity for hydrolysis of asparaginyl bonds. Can also cleave aspartyl bonds slowly, especially under acidic conditions. Required for normal lysosomal protein degradation in renal proximal tubules. Required for normal degradation of internalized EGFR. Plays a role in the regulation of cell proliferation via its role in EGFR degradation (By similarity). May be involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system. [UniProt]</p>
Calculated Mw	<p>49 kDa (Isoform 1) 43 kDa (Isoform 2)</p>
PTM	<p>Glycosylated.</p> <p>Activated by autocatalytic processing at pH 4. [UniProt]</p>
Cellular Localization	<p>Lysosome. [UniProt]</p>

Images



ARG42657 anti-Legumain antibody WB image

Western blot: 25 µg of Mouse kidney lysate stained with ARG42657 anti-Legumain antibody at 1:1000 dilution.