

Datasheet for ABIN5510724
LGMN ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	LGMN
Binding Specificity:	AA 18-435
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Legumain(total)
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: V18-Y435
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Characteristics:	Tissue Specificity: Detected in kidney proximal tubules (at protein level). Ubiquitous. Particularly abundant in kidney and placenta. .

Target Details

Target:	LGMN
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Target Details

Alternative Name: Lgmn ([LGMN Products](#))

Background: Protein Function: Has a strict specificity for hydrolysis of asparaginyl bonds. Can also cleave aspartyl bonds slowly, especially under acidic conditions. May be involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system. 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. .

Background: Legumain (asparaginyl endopeptidase, citvac, proteinase B, hemoglobinase, PRSC1 gene product or LGMN (Homo sapiens), vicilin peptidohydrolase, bean endopeptidase) is an enzyme that in humans is encoded by the LGMN gene (previous symbol PRSC1). Using fluorescence in situ hybridization, the LGMN gene was mapped to chromosome 14q32.1. 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.

Synonyms: Legumain,3.4.22.34,Asparaginyl endopeptidase,Protease, cysteine 1,Lgmn,Prsc1,
Full Gene Name: Legumain
Cellular Localisation: Lysosome.

UniProt: [O89017](#)

Pathways: [Metabolism of Steroid Hormones and Vitamin D](#), [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#)

Application Details

Plate: Pre-coated

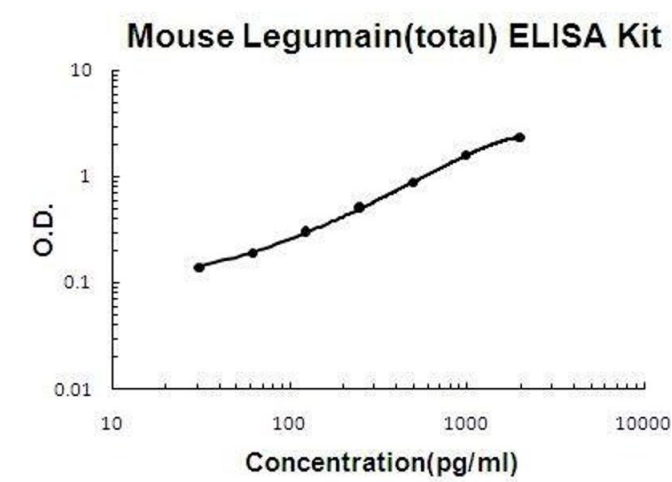
Restrictions: For Research Use only

Handling

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months



ELISA

Image 1. Mouse Legumain(total) PicoKine ELISA Kit standard curve