

## Mouse Legumain (LGMN) ELISA Kit

Catalog No: #EK11529



Package Size: #EK11529-1 48T #EK11529-2 96T

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## Description

Product Name	Mouse Legumain (LGMN) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	AEP; LGMN1; PRSC1; asparaginyl endopeptidase cysteine protease 1 protease; cysteine; 1 (legumain)
Accession No.	O89017
Uniprot	O89017
GeneID	19141;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:1.23-100 µg/mL

Sensitivity:0.57 µg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate LGMN in samples. An antibody specific for LGMN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLGMN present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LGMN is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LGMN bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Legumain is 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.

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Note: This product is for in vitro research use only