

Human Legumain ELISA Kit | LGMN elisa kit

Human Legumain(total) PicoKine ELISA Kit

CATALOG #
AAA46790

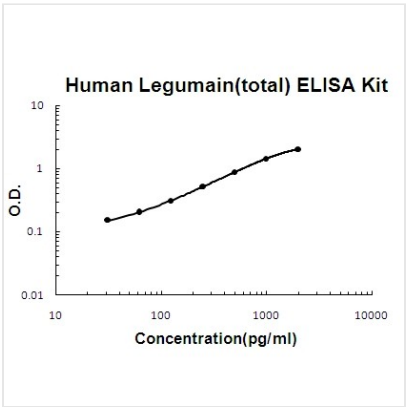
REACTIVITY
Human

PRODUCT SYNONYMS

Legumain; Human Legumain(total) PicoKine ELISA Kit; AEP; Asparaginyl endopeptidase; cysteine 1; Cysteine protease 1; EC 3.4.22.34; LGMN; LGMN_HUMAN; LGMN1; Protease; Protease cysteine 1; Protease cysteine 1 (legumain); PRSC1; Q99538; LGMN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Legumain(total)
Sequence Length	433
Assay Range	31.2pg/ml-2000pg/ml
Sensitivity	<10pg/ml
Anticoagulant	heparin or EDTA
TMB incubation time	20-25
Immunogen	NSO, V18-Y433
Sample Data	Concentration(pg/ml): 0 31.2 62.5 125 250 500 1000 2000 O.D.: 0.007 0.151 0.203 0.307 0.508 0.871 1.413 1.988
Intra/Inter Assay Precision	Sample: 1 2 3 1 2 3 n: 16 16 16 24 24 24 Mean(pg/ml): 41.2 167 841 55 201 755 Standard Deviation: 2.34 11.86 62.23 2.98 10.25 46.81 CV(%): 5.7 7.1 7.4 5.4 5.1 6.2
Assay Procedure Step 1	Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml human Legumain(total) standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, cell lysates, tissue homogenates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each human Legumain(total) standard solution and each sample be measured in duplicate.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human Legumain(total) PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for LGMN elisa kit	For quantitative detection of human Legumain(total) in cell culture supernates, cell lysates, tissue homogenates, serum and plasma (heparin, EDTA). 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 symbolPRSC1). 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. Principle: Human Legumain(total) ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from Mouse specific for Legumain(total) has been precoated onto 96-well plates. Standards(Expression system for standard: NSO, Immunogen sequence: V18-Y433) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Legumain(total) is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substRate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human Legumain(total) amount of sample captured in plate.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	56682964
NCBI GeneID	5641
NCBI Accession #	NP_001008530.1
NCBI GenBank Nucleotide #	NM_001008530.2
UniProt Accession #	Q99538; O00123; Q86TV2; Q86TV3; Q9BTY1
Molecular Weight	42,008 Da
NCBI Official Full Name	legumain preproprotein
NCBI Official Synonym Full Names	legumain
NCBI Official Symbol	LGMN
NCBI Official Synonym Symbols	AEP; LGMN1; PRSC1
NCBI Protein Information	legumain

UniProt Protein Name	Legumain
UniProt Gene Name	LGMN
UniProt Synonym Gene Names	PRSC1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/lgmh-human-elisa-kits/legumain/46790>