

Rat Legumain ELISA Kit | LGMN elisa kit

Rat Legumain PicoKine ELISA Kit

CATALOG #
AAA125306

REACTIVITY
Rat

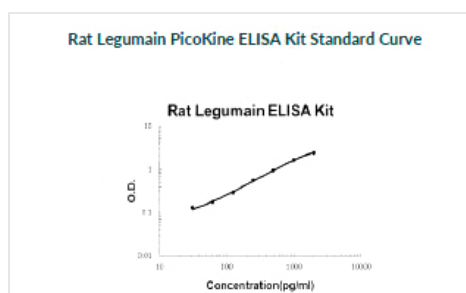
PRODUCT SYNONYMS

Legumain; Rat Legumain PicoKine ELISA Kit; Rat Legumain; Asparaginyl endopeptidase; Protease; cysteine 1; LgmN; Prsc1; LGMN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat LgmN
Sequence Length	435
Samples	Cell culture supernates, serum and plasma (heparin, EDTA, citrate)
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	<10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LGMN elisa kit	Principle of the Assay: The Picokine™ Rat Lgmn Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat Lgmn with a 96-well strip plate that is pre-coated with antibody specific for Lgmn. The detection antibody is a biotinylated antibody specific for Lgmn. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Rat Lgmn with immunogen: Expression system for standard: NSO, Immunogen sequence: V18-N325. The kit is analytically validated with ready to use reagents. To measure Rat Lgmn, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Rat Lgmn in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Rat Lgmn in the sample.!!Background/Introduction: Legumain is a protein that in humans is encoded by the LGMN gene. It is mapped to 6q32. This gene encodes a cysteine protease, legumain, 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	31543514
NCBI GeneID	63865
NCBI Accession #	NP_071562.2
NCBI GenBank Nucleotide #	NP_071562.2
UniProt Accession #	Q9R0J8
NCBI Official Full Name	legumain
NCBI Official Synonym Full Names	legumain
NCBI Official Symbol	Lgmn
NCBI Official Synonym Symbols	Prsc1
NCBI Protein Information	legumain
UniProt Protein Name	Legumain
UniProt Gene Name	Lgmn
UniProt Synonym Gene Names	Prsc1
UniProt Entry Name	LGMN_RAT

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.