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Datasheet for ABIN5510723

LGMN ELISA Kit





Overview	
Quantity:	96 tests
Target:	LGMN
Binding Specificity:	AA 18-433
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA
Product Details	
Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Legumain(total)
Prond:	DiooKino™

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Legumain(total)
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: V18-Y433
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Characteristics:	Tissue Specificity: Ubiquitous. Particularly abundant in kidney, heart and placenta.

Target Details

Target:	LGMN
Alternative Name:	LGMN (LGMN Products)

Target Details

Ranko	round:
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Protein Function: 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.

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.

Synonyms: Legumain,3.4.22.34,Asparaginyl endopeptidase,Protease, cysteine 1,LGMN,PRSC1,

Full Gene Name: Legumain

Cellular Localisation: Lysosome.

UniProt:

Q99538

Pre-coated

12 months

Pathways:

Plate:

Expiry Date:

Metabolism of Steroid Hormones and Vitamin D, Activation of Innate immune Response, Toll-Like Receptors Cascades

Application Details

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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.)

ELISA

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