

Human Laminin ELISA Kit | LAMA1 elisa kit

Human Laminin Quick ELISA Kit

CATALOG #
AAA125856

REACTIVITY
Human

PRODUCT SYNONYMS

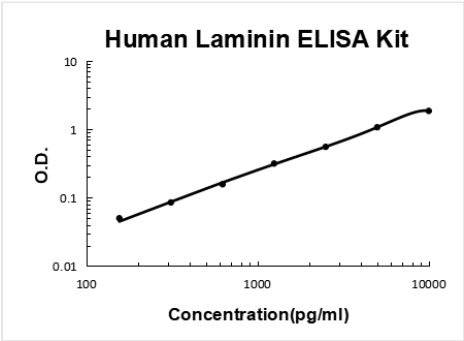
Laminin; Human Laminin Quick ELISA Kit; LAMA1|LAMA; Laminin A chain; laminin subunit alpha-1; laminin; alpha 1; Laminin-1 subunit alpha; Laminin-3 subunit alpha; S-LAM alpha; S-laminin subunit alpha; Laminin subunit alpha-1; LAMA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human LAMA1; LAMB1; LAMC1
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, cell lysates and serum
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<10pg/ml
Capture/Detection Antibodies	Capture antibody- polyclonal antibody from goat Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.056 0.106 0.141 0.213 0.372 0.610 1.128 1.915
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 326 1022 4563 Standard deviation 23.47 49.06 337.66 CV(%) 7.2% 4.8% 7.4%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 326 1022 4563 330 1120 4365 Standard deviation 23.47 49.06 337.66 29.04 62.72 410.31 CV(%)8.8% 5.6% 9.4%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 326 366 350 381 356 26.68 7.5% Sample 2: 1022 1228 1070 1230 1138 73.94 6.5% Sample 3: 4563 4223 4654 4640 4520 212.44 4.7% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: from human fibroblasts
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human Laminin with <10pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	Human LAMA1; LAMB1; LAMC1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human LAMA1; LAMB1; LAMC1 in cell culture supernatants, cell lysates and serum. It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Human LAMA1; LAMB1; LAMC1 with immunogen: Expression system for standard: from human fibroblasts. To measure Human LAMA1; LAMB1; LAMC1, add standards and samples to the wells, then add antibody cocktail. Wash the wells 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 Human LAMA1; LAMB1; LAMC1 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 Human LAMA1; LAMB1; LAMC1 in the sample.
Assay Procedure Step 1	10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312.5pg/ml, 156.25pg/ml
TMB Incubation Time	15
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for LAMA1 elisa kit	Laminin is a large basement membrane glycoprotein composed of three subunits designated the A, B1, and B2. 1 Laminin has diverse biological functions, which include stimulating epithelial cell growth and differentiation. The nucleotide sequence of human laminin A chain has an open reading frame encoding 3075-amino acids. The human laminin A chain is at locus 18p11. 3. The nucleotide sequence of the human laminin B1 reveals a 5358-base pair open reading frame that potentially codes for 1786 amino acids, including 20 amino acids of a presumptive signal peptide. 2 The gene for the human laminin-B1 chain has been localized to chromosome 7, band q31. The B2 chain consists of six distinct domains, including two domains with alpha-helical, coiled-coil structures, two domains with cysteine-rich homologous repeats, and two globular domains. The amino acid sequences of the B2 and B1 chains demonstrate considerable homology. The human laminin B2 chain gene maps to the long arm of chromosome 1 in the band q31.
Product Categories/Family for LAMA1 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	38788416
NCBI GeneID	284217
NCBI Accession #	NP_005550.2
NCBI GenBank Nucleotide #	NM_005559.3

UniProt Accession #	P25391
Molecular Weight	337,084 Da
NCBI Official Full Name	laminin subunit alpha-1
NCBI Official Synonym Full Names	laminin, alpha 1
NCBI Official Symbol	LAMA1
NCBI Official Synonym Symbols	LAMA; S-LAM-alpha
NCBI Protein Information	laminin subunit alpha-1; S-LAM alpha; laminin A chain; S-laminin subunit alpha; laminin-3 subunit alpha
UniProt Protein Name	Laminin subunit alpha-1
UniProt Gene Name	LAMA1
UniProt Synonym Gene Names	LAMA; S-LAM alpha
UniProt Entry Name	LAMA1_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/lama1-human-elisa-kits/laminin/125856>