

Rat Laminin ELISA Kit | LAMA1 elisa kit

Rat Laminin PicoKine ELISA Kit

CATALOG #
AAA45350

REACTIVITY
Rat

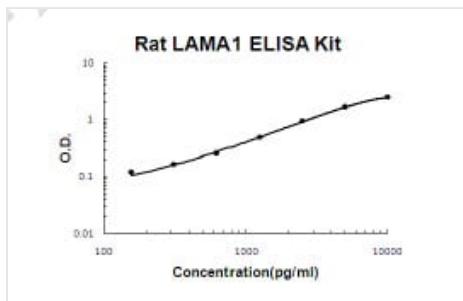
PRODUCT SYNONYMS

Laminin; Rat Laminin PicoKine ELISA Kit; Laminin subunit alpha-1; Laminin subunit alpha-2; Laminin subunit beta-1; Laminin subunit beta-2; laminin; alpha 1; alpha 2; beta 1; beta 2(laminin S); Lamb2; LAMB2_HUMAN; LAMC1; LAMC2; LAMC3; laminin A; Laminin B; Laminin B1s chain; Laminin gamma 1; Laminin gamma 2; Laminin gamma 3; Laminin-11 subunit beta; Laminin-14 subunit beta; Laminin-15 subunit beta; Laminin-3 subunit beta; Laminin-4 subunit beta; Laminin-7 subunit beta; Laminin-9 subunit beta; OCCM; S-LAM beta; S-laminin subunit beta; LAMA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat LAMA1
Sequence Length	1801
Samples	Cell culture supernates, cell lysates, serum and plasma (heparin, edta)
Detection Range	156pg/ml-10,000pg/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 interassay precision.
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



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LAMA1 elisa kit	Principle of the Assay: The Picokine™ Rat LAMA1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat LAMA1 with a 96-well strip plate that is pre-coated with antibody specific for LAMA1. The detection antibody is a biotinylated antibody specific for LAMA1. The capture antibody is polyclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Rat LAMA1 with immunogen: Expression system for standard: from rat sarcoma basement membrane. The kit is analytically validated with ready to use reagents. To measure Rat LAMA1, 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 LAMA1 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 LAMA1 in the sample. Background/Introduction: Laminin is a large basement membrane glycoprotein composed of three subunits designated the A, B1, and B2. 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. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126371
NCBI GeneID	25473
UniProt Accession #	P15800
Molecular Weight	196,474 Da
NCBI Official Full Name	Laminin subunit beta-2
NCBI Official Synonym Full Names	laminin, beta 2
NCBI Official Symbol	Lamb2
NCBI Official Synonym Symbols	SLAM
NCBI Protein Information	laminin subunit beta-2; S-LAM beta; laminin chain B3; laminin chain beta 2; S-laminin subunit beta; laminin-3 subunit beta; laminin-4 subunit beta; laminin-7 subunit beta; laminin-9 subunit beta; laminin-11 subunit beta; laminin-14 subunit beta; laminin-15 subunit beta
UniProt Protein Name	Laminin subunit beta-2
UniProt Gene Name	Lamb2
UniProt Synonym Gene Names	S-LAM beta
UniProt Entry Name	LAMB2_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.