

Datasheet for ABIN411317

Laminin ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	96 tests
Target:	Laminin (LN)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Laminin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	from murine sarcoma basement membrane
Specificity:	Expression system for standard: from murine sarcoma basement membrane
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the

Product Details

detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

Target Details

Target: Laminin (LN)

Alternative Name: Laminin ([LN Products](#))

Background: Protein Function: Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components.

Background: 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.

Synonyms: Laminin subunit alpha-3, Epiligrin subunit alpha, Kalinin subunit alpha, Laminin-5 subunit alpha, Laminin-6 subunit alpha, Laminin-7 subunit alpha, Nicein subunit alpha, Lama3,

Full Gene Name: Laminin subunit alpha-3

Cellular Localisation: Secreted, extracellular space, extracellular matrix, basement membrane.

Major component.

Gene ID: 16774

UniProt: [E9PUR4](#)

Application Details

Application Notes: Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.

Comment: Sequence similarities: Contains 15 laminin EGF-like domains.

Tissue Specificity: Basal membrane of the upper alimentary tract and urinary and nasal

Application Details

epithelia, salivary glands and teeth (both variants). Isoform A is predominantly expressed in skin, hair follicles and developing neurons of the trigeminal ganglion. Isoform B was found in bronchi, alveoli, stomach, intestinal crypts, whisker pads, CNS, telencephalic neuroectoderm, thalamus, Rathke pouch and periventricular subependymal germinal layer.

Plate: Pre-coated

Protocol: mouse Laminin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A polyclonal antibody from rabbit specific for Laminin has been precoated onto 96-well plates. Standards(from murine sarcoma basement membrane) and test samples are added to the wells, a biotinylated detection polyclonal antibody from rabbit specific for Laminin 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 mouse Laminin amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL mouse Laminin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse Laminin standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 1266, Standard deviation: 58.24, CV(%): 4.6
- Sample 2: n=16, Mean(pg/ml): 3866, Standard deviation: 204.9, CV(%): 5.3
- Sample 3: n=16, Mean(pg/ml): 6831, Standard deviation: 457.7, CV(%): 6.7,
- Sample 1: n=24, Mean(pg/ml): 1576, Standard deviation: 91.41, CV(%): 5.8
- Sample 2: n=24, Mean(pg/ml): 4364, Standard deviation: 270.6, CV(%): 6.2
- Sample 3: n=24, Mean(pg/ml): 7224, Standard deviation: 534.6, CV(%): 7.4

Restrictions: For Research Use only

Handling

Handling Advice: Avoid multiple freeze-thaw cycles.

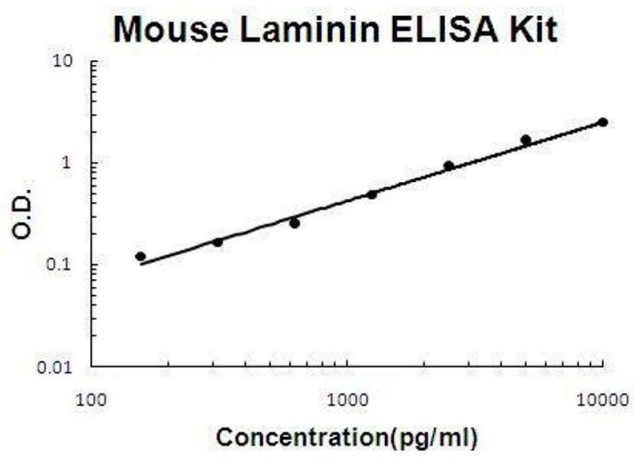
Storage: -20 °C, 4 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Handling

Expiry Date: 12 months

Images



ELISA

Image 1. Mouse Laminin PicoKine ELISA Kit standard curve