

Rat Laminin alpha 1 (LAMA1) ELISA Kit

Catalog No: #EK10159



Package Size: #EK10159-1 48T #EK10159-2 96T

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Description

Product Name	Rat Laminin alpha 1 (LAMA1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	LAMA;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.55 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LAMA1 in samples. An antibody specific for LAMA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLAMA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LAMA1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LAMA1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Laminin is a basement membrane protein composed of 3 nonidentical chains, A (400 kD), B1 (230 kD), and B2 (220 kD), which are arranged in a cross-shaped structure. Mattei et al. (1989) used in situ hybridization to localize the human laminin A locus to chromosome 18p11.31.By study of mouse-Chinese hamster somatic cell hybrids, Kaye et al. assigned the gene for laminin A to mouse chromosome 17 and confirmed the assignment of the gene for laminin B2 to mouse chromosome 1. Haaparanta et al. reported the nucleotide sequence of LAMA cDNA. They found an open reading frame encoding 3,075 amino acids. Nissinen et al. reported that the complete human laminin A chain contains a 17-amino acid signal peptide and a 3,058-residue A chain proper. The chain has a distinct domain structure with numerous internal cysteine-rich repeats.

Note: This product is for in vitro research use only