



Rabbit Anti-LAMR1 antibody

SL0900R

Product Name:	LAMR1
Chinese Name:	层粘连蛋白受体1抗体(N端)
Alias:	67kDa Laminin Receptor; 37LRP; P37-kDa laminin receptor precursor; MGr1-Ag; laminin receptor 1; 67kD, ribosomal protein SA; 34/67 kDa laminin receptor; 40S ribosomal protein SA; 67LR; Colon carcinoma laminin-binding protein; LAMBR; Laminin Receptor 1; LAMR 1; LAMR1; LRP; Multidrug resistance-associated protein MGr1-Ag; NEM/1CHD4; p40; Ribosomal Protein SA; RPSA; 67kD laminin receptor; Laminin Receptor 1; Laminin R1; LNR1; RSSA HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/testIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	32.7kDa
Cellular localization:	The nucleuscytoplasmicThe cell membraneExtracellular matrix
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human LAMR1:101-200/295
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of

biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Many of the effects of laminin are mediated through interactions with cell surface receptors. These receptors include members of the integrin family, as well as non-integrin laminin-binding proteins. This gene encodes a high-affinity, non-integrin family, laminin receptor 1. This receptor has been variously called 67 kD laminin receptor, 37 kD laminin receptor precursor (37LRP) and p40 ribosome-associated protein. The amino acid sequence of laminin receptor 1 is highly conserved through evolution, suggesting a key biological function. It has been observed that the level of the laminin receptor transcript is higher in colon carcinoma tissue and lung cancer cell line than their normal counterparts. Also, there is a correlation between the upregulation of this polypeptide in cancer cells and their invasive and metastatic phenotype. Multiple copies of this gene exist, however, most of them are pseudogenes thought to have arisen from retropositional events. Two alternatively spliced transcript variants encoding the same protein have been found for this gene.

Function:

Required for the assembly and/or stability of the 40S ribosomal subunit. Required for the processing of the 20S rRNA-precursor to mature 18S rRNA in a late step of the maturation of 40S ribosomal subunits. Also functions as a cell surface receptor for laminin. Plays a role in cell adhesion to the basement membrane and in the consequent activation of signaling transduction pathways. May play a role in cell fate determination and tissue morphogenesis. Acts as a PPP1R16B-dependent substrate of PPP1CA. Also acts as a receptor for several other ligands, including the pathogenic prion protein, viruses, and bacteria.

Subunit:

Monomer (37LRP) and homodimer (67LR). Component of the small ribosomal subunit. Mature ribosomes consist of a small (40S) and a large (60S) subunit. The 40S subunit contains about 33 different proteins and 1 molecule of RNA (18S). The 60S subunit contains about 49 different proteins and 3 molecules of RNA (28S, 5.8S and 5S). Interacts with RPS21. Interacts with several laminins including at least LAMB1. Interacts with MDK. Interacts with PRNP. The mature dimeric form interacts with PPP1R16B (via its fourth ankyrin repeat). Interacts with PPP1CA only in the presence of PPP1R16B.

Subcellular Location:

Cell membrane. Cytoplasm. Nucleus. Note=67LR is found at the surface of the plasma membrane, with its C-terminal laminin-binding domain accessible to extracellular ligands. 37LRP is found at the cell surface, in the cytoplasm and in the nucleus. Co-localizes with PPP1R16B in the cell membrane.

Post-translational modifications:

Acylated. Acylation may be a prerequisite for conversion of the monomeric 37 kDa laminin receptor precursor (37LRP) to the mature dimeric 67 kDa laminin receptor (67LR), and may provide a mechanism for membrane association.

Cleaved by stromelysin-3 (ST3) at the cell surface. Cleavage by stromelysin-3 may be a

mechanism to alter cell-extracellular matrix interactions.

Similarity:

Belongs to the ribosomal protein S2P family.

SWISS:

P08865

Gene ID:

3921

Database links:

[Entrez Gene: 3921](#)Human

[Entrez Gene: 100505031](#)Mouse

[Entrez Gene: 16785](#)Mouse

[Entrez Gene: 29236](#)Rat

[Omim: 150370](#)Human

[SwissProt: P08865](#)Human

[SwissProt: P14206](#)Mouse

[SwissProt: P38983](#)Rat

[Unigene: 449909](#)Human

[Unigene: 311972](#)Mouse

[Unigene: 391708](#)Mouse

[Unigene: 4071](#)Mouse

[Unigene: 121972](#)Rat

[Unigene: 161973](#)Rat

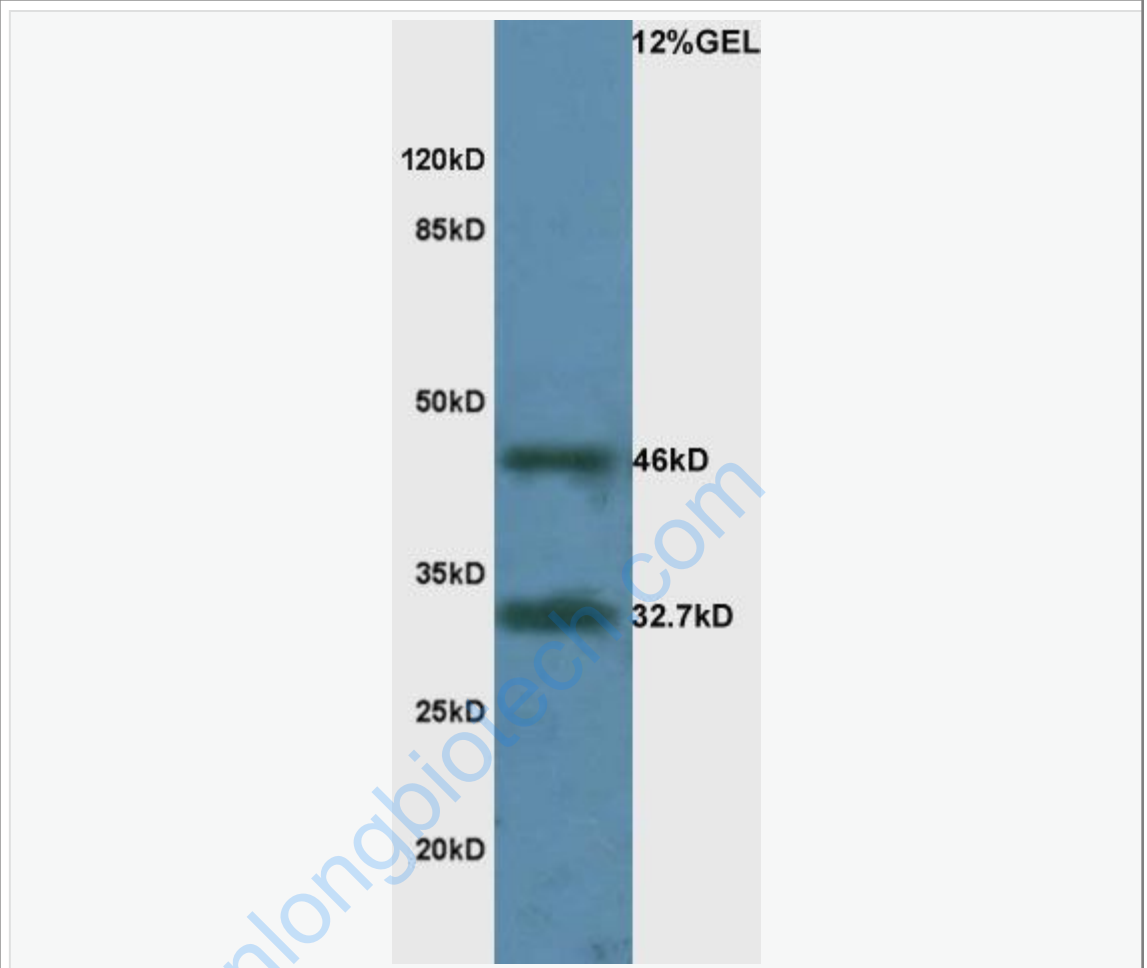
[Unigene: 999](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

层粘连蛋白受体1 (37LRP)为分子量67KDa层粘连蛋白受体重要的前体.是近期发现的-胃癌耐药相关蛋白。

Picture:



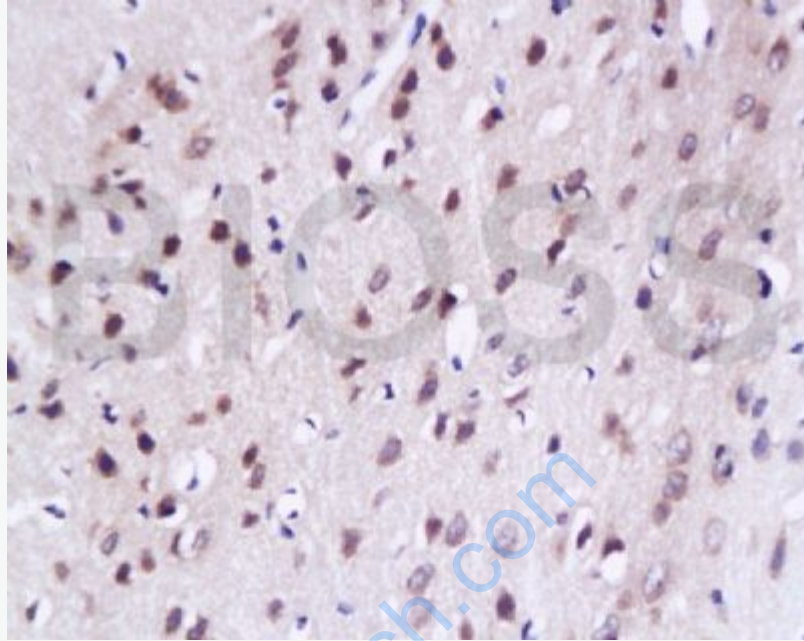
Sample: Brain(Mouse) Lysate at 30 ug

Primary: Anti-LAMR1 (SL0900R) at 1:300 dilution;

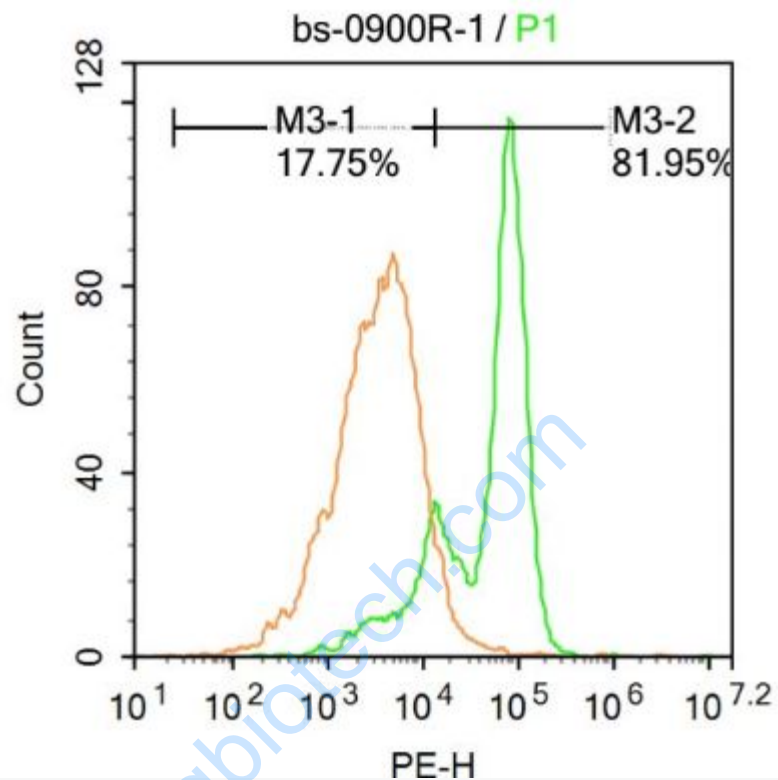
Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL0900R) at 1: 5000 dilution;

Predicted band size : 32.7kD

Observed band size : 32.7kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-LAMR1 Polyclonal Antibody, Unconjugated(SL0900R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Molt-4 cells were fixed with 4% PFA for 10min at room temperature ,permeabilized with 90% ice-cold methanol for 20 min at -20°C, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with LAMR1 Antibody(SL0900R)at 1:500 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).