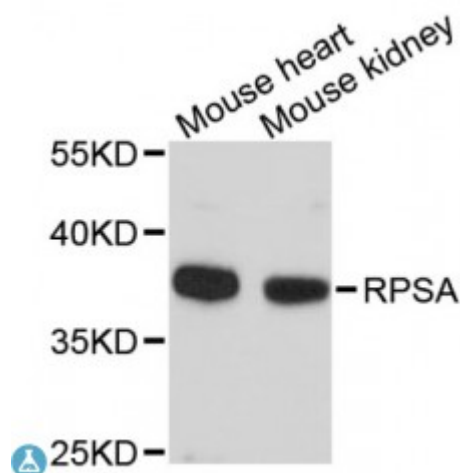


Anti-RPSA Antibody



Description

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.

Model	STJ113608
Host	Rabbit
Reactivity	Mouse
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-295 of human RPSA (NP_002286.2).

Gene ID	3921
Gene Symbol	RPSA
Dilution range	WB 1:500 - 1:2000
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	40S ribosomal protein SA 37 kDa laminin receptor precursor 37LRP 37/67 kDa laminin receptor LRP/LR 67 kDa laminin receptor 67LR Colon carcinoma laminin-binding protein Laminin receptor 1 LamR Lam
Molecular Weight	32.854 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:6502OMIM:150370Reactome:R-HSA-156827
Alternative Names	40S ribosomal protein SA 37 kDa laminin receptor precursor 37LRP 37/67 kDa laminin receptor LRP/LR 67 kDa laminin receptor 67LR Colon carcinoma laminin-binding protein Laminin receptor 1 LamR Lam
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,
Cellular Localization	Cell membrane, Cytoplasm, Nucleus,
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 at the cell surface, Cleavage by stromelysin-3 may be a mechanism to alter cell-extracellular matrix interactions,