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**Product Name: KO-Validated Ribosomal Protein SA Recombinant Rabbit Monoclonal Antibody****Catalog #: KVAAb00105**

For research use only.

**Summary**

<b>Description</b>	KO&KD-Validated antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,FCM,ICC
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Rabbit mAb
<b>Form</b>	Liquid
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
<b>Molecular Weight</b>	Calculated MW: 32.9kDa

**Antigen Information**

<b>Gene Name</b>	RPSA RPSA; Ribosomal Protein SA; 37LRP; LAMR1; LRP; P40; US2; SA; Laminin Receptor 1 (67kD, Ribosomal Protein SA); Multidrug Resistance-Associated Protein MGr1-Ag; Colon Carcinoma
<b>Alternative Names</b>	Laminin-Binding Protein; Laminin-Binding Protein Precursor P40; Small Ribosomal Subunit Protein US2; 37/67 KDa Laminin Receptor; 40S Ribosomal Protein SA; 67 KDa Laminin Receptor; NEM/1CHD4; LBP/P40; LRP/LR; LAMBR; 67LR; LamR; 37 KDa Laminin Receptor Precursor; 37 KDa Laminin Receptor; Laminin Receptor 1; ICAS; LBP
<b>Gene ID</b>	3921.0
<b>SwissProt ID</b>	P08865
<b>Immunogen</b>	A synthesized peptide derived from human 67kDa Laminin Receptor

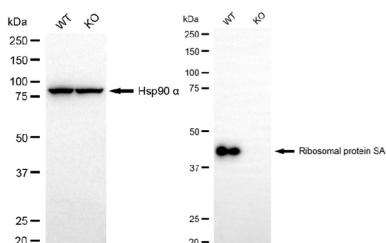
## Background

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. [provided by RefSeq, Jul 2008]

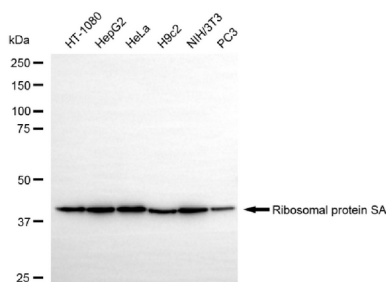
## Research Area

Cardiovascular, Neuroscience, Signal Transduction

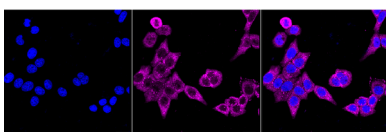
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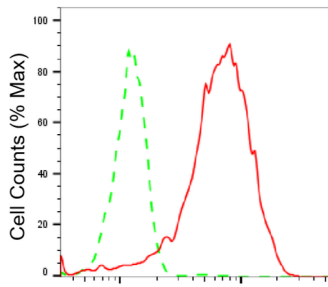
Western blotting analysis using ribosomal protein SA antibody (KVA00105). Ribosomal protein SA expression in wild type (WT) and ribosomal protein SA (RPSA) knockout (KO) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ribosomal protein SA antibody (KVA00105, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ribosomal protein SA antibody (KVA00105). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ribosomal protein SA antibody (KVA00105, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Ribosomal protein SA antibody (KVA00105, 1:1,000). Nuclei were stained blue with DAPI; Ribosomal protein SA was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Ribosomal protein SA-Alexa Fluor® 647

Flow cytometric analysis of Ribosomal protein SA expression in HepG2 cells using Ribosomal protein SA antibody (KVAAb00105, 1:2,000). Green, isotype control; red, Ribosomal protein SA.