10320 Camino Santa Fe, Suite G
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KO-Validated Anti-Ribosomal Protein SA Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2429

Specification

KO-Validated Anti-Ribosomal Protein SA Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P08865
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 33 kDa; observed, 42 kDa KDa**
Gene Name	**RPSA**
Aliases	**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 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**
Immunogen	**A synthesized peptide derived from human 67kDa Laminin Receptor**

KO-Validated Anti-Ribosomal Protein SA Rabbit Monoclonal Antibody - Additional Information

Gene ID	**3921**

Other Names
Small ribosomal subunit protein uS2 {ECO:0000255|HAMAP-Rule:MF_03016, ECO:0000303|PubMed:24524803}, 37 kDa laminin receptor precursor {ECO:0000255|HAMAP-Rule:MF_03016}, 37LRP {ECO:0000255|HAMAP-Rule:MF_03016}, 37/67 kDa laminin receptor {ECO:0000255|HAMAP-Rule:MF_03016}, LRP/LR {ECO:0000255|HAMAP-Rule:MF_03016}, 40S ribosomal protein SA, 67 kDa laminin receptor {ECO:0000255|HAMAP-Rule:MF_03016}, 67LR {ECO:0000255|HAMAP-Rule:MF_03016}, Colon carcinoma laminin-binding protein, Laminin receptor 1 {ECO:0000255|HAMAP-Rule:MF_03016}, LamR {ECO:0000255|HAMAP-Rule:MF_03016}, Laminin-binding protein precursor p40 {ECO:0000255|HAMAP-Rule:MF_03016}, LBP/p40 {ECO:0000255|HAMAP-Rule:MF_03016}, Multidrug resistance-associated protein MGr1-Ag, NEM/1CHD4, RPSA {ECO:0000255|HAMAP-Rule:MF_03016}, LAMBR, LAMR1

KO-Validated Anti-Ribosomal Protein SA Rabbit Monoclonal Antibody - Protein Information

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Name RPSA {ECO:0000255|HAMAP-Rule:MF_03016}

Synonyms LAMBR, LAMR1

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.

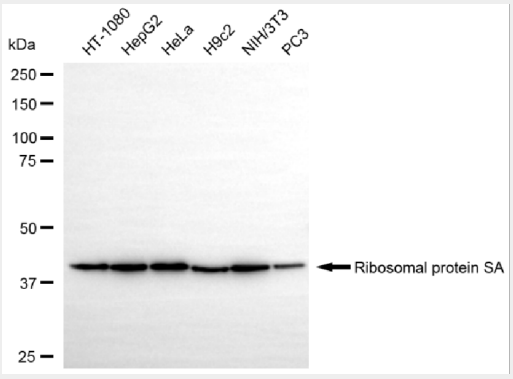
Cellular Location
Cell membrane. Cytoplasm. Nucleus {ECO:0000255|HAMAP-Rule:MF_03016}. Note=67LR is found at the surface of the plasma membrane, with its C-terminal laminin-binding domain accessible to extracellular ligands. 37LRP is found at the cell surface, in the cytoplasm and in the nucleus (By similarity) Colocalizes with PPP1R16B in the cell membrane. {ECO:0000255|HAMAP-Rule:MF_03016}

KO-Validated Anti-Ribosomal Protein SA Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KO-Validated Anti-Ribosomal Protein SA Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-ribosomal protein SA antibody (Cat#71214). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ribosomal protein SA antibody (Cat#71214, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).

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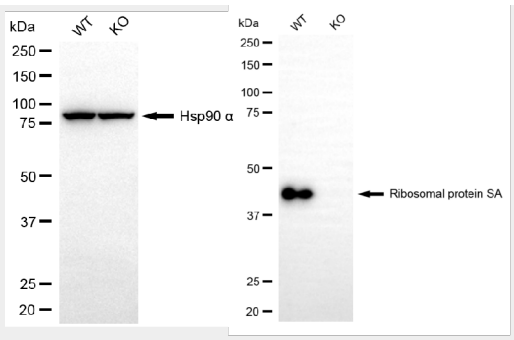
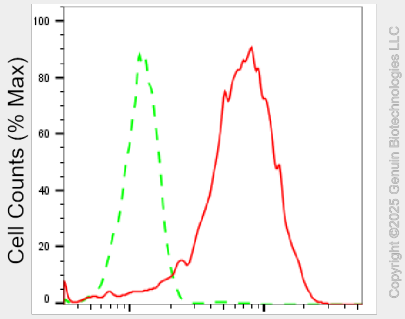
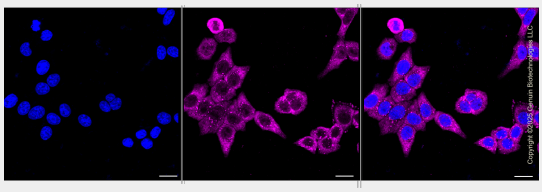


Western blotting analysis using anti-ribosomal protein SA antibody (Cat#71214). Ribosomal protein SA expression in wild type (WT) and ribosomal protein SA (RPSA) knockout (KO) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-ribosomal protein SA antibody (Cat#71214, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).



Ribosomal protein SA-Alexa Fluor® 647

Flow cytometric analysis of Ribosomal protein SAc expression in HepG2 cells using anti-Ribosomal protein SA antibody (Cat#71214, 1:2,000). Green, isotype control; red, Ribosomal protein SA.



Immunocytochemical staining of HepG2 cells with anti-Ribosomal protein SA antibody (Cat#71214, 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.