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Anti-67kDa Laminin Receptor RPSA Rabbit Monoclonal Antibody

Catalog # ABO14294

Specification

Anti-67kDa Laminin Receptor RPSA Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC, IF, ICC, IP, FC**
Primary Accession	P08865
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-67kDa Laminin Receptor RPSA Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-67kDa Laminin Receptor RPSA 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

Calculated MW
32854 MW KDa

Application Details
WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200
IP 1:50
FC 1:50

Subcellular Localization
Cell membrane. Cytoplasm. Nucleus. 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..

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human 67kDa Laminin Receptor

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-67kDa Laminin Receptor RPSA Rabbit Monoclonal Antibody - Protein Information

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}

Anti-67kDa Laminin Receptor RPSA 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

Anti-67kDa Laminin Receptor RPSA Rabbit Monoclonal Antibody - Images

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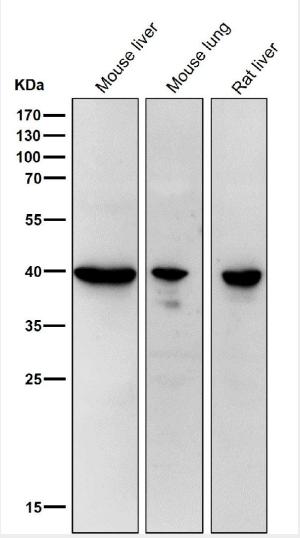
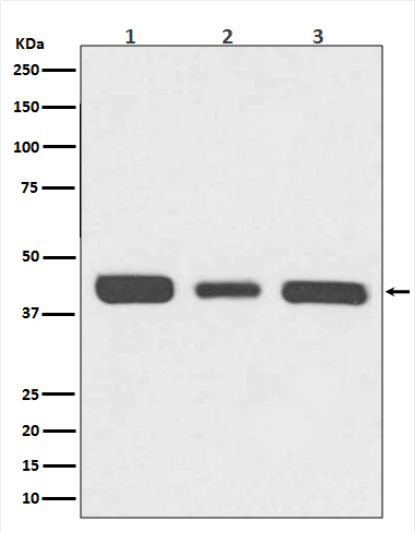


All lanes use the Antibody at 1:6K dilution for 1 hour at room temperature.



Western blot analysis of 67kDa Laminin Receptor expression in (1) HeLa cell lysate; (2) NIH/3T3 cell lysate; (3) PC-12 cell lysate.

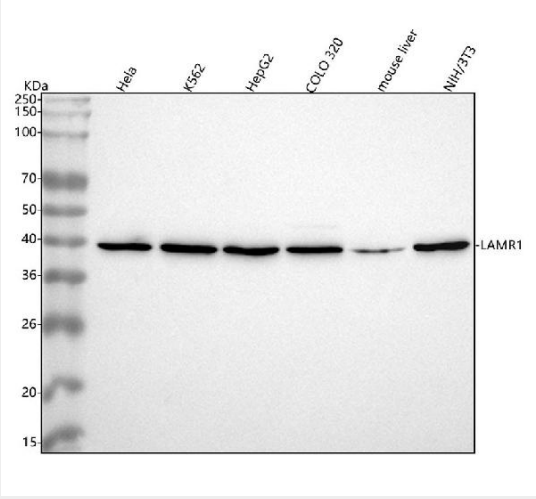


Figure 1. Western blot analysis of 67kDa Laminin Receptor using anti-67kDa Laminin Receptor

antibody (M01691).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human K562 whole cell lysates,
Lane 3: human HepG2 whole cell lysates,
Lane 4: human COLO320 whole cell lysates,
Lane 5: mouse liver tissue lysates,
Lane 6: mouse NIH/3T3 whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-67kDa Laminin Receptor antigen affinity purified monoclonal antibody (Catalog # M01691) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for 67kDa Laminin Receptor at approximately 40 kDa. The expected band size for 67kDa Laminin Receptor is at 33 kDa.