

# Rpsa antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI13668

## Product Information

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| <b>Application</b>       | WB   |
| <b>Primary Accession</b> | <a href="#">P14206</a>   |
| <b>Other Accession</b>   | <a href="#">NM_011029</a> , <a href="#">NP_035159</a>                      |
| <b>Reactivity</b>        | Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Goat, Dog, Horse, Bovine, Sheep |
| <b>Predicted</b>         | Human, Mouse, Dog, Horse, Bovine, Sheep                                    |
| <b>Host</b>              | Rabbit   |
| <b>Clonality</b>         | Polyclonal   |
| <b>Calculated MW</b>     | 32838  |

## Additional Information

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| <b>Gene ID</b>                      | 16785   |
| <b>Alias Symbol</b>                 | 67kDa, 67lr, AL022858, Lamr, Lamr1, Lamr1l, MGC117921, MGC118614, MLR, P40, P40-3, P40-8  |
| <b>Other Names</b>                  | 40S ribosomal protein SA {ECO:0000255   HAMAP-Rule:MF_03016}, 37 kDa laminin receptor precursor {ECO:0000255   HAMAP-Rule:MF_03016}, 37LRP {ECO:0000255   HAMAP-Rule:MF_03016}, 37 kDa oncofetal antigen, 37/67 kDa laminin receptor {ECO:0000255   HAMAP-Rule:MF_03016}, LRP/LR {ECO:0000255   HAMAP-Rule:MF_03016}, 67 kDa laminin receptor {ECO:0000255   HAMAP-Rule:MF_03016}, 67LR {ECO:0000255   HAMAP-Rule:MF_03016}, 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}, OFA/iLRP, Rpsa, Lamr1, P40-8 |
| <b>Format</b>                       | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.   |
| <b>Reconstitution &amp; Storage</b> | Add 50 ul of distilled water. Final anti-Rpsa antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.   |
| <b>Precautions</b>                  | Rpsa antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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| <b>Name</b> | Rpsa |
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## Synonyms

Lamr1, P40-8

## 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. Also acts as a receptor for several other ligands, including the pathogenic prion protein, viruses, and bacteria. Acts as a PPP1R16B-dependent substrate of PPP1CA (By similarity). Enables malignant tumor cells to penetrate laminin tissue and vessel barriers. Activates precursor thymic anti- OFA/iLRP specific cytotoxic T-cell. May induce CD8 T-suppressor cells secreting IL-10.

## Cellular 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. Colocalizes with PPP1R16B in the cell membrane (By similarity). 37LRP shuttles to the nucleus upon midkine (MDK) binding. {ECO:0000255|HAMAP-Rule:MF\_03016}

## References

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- Rao C.N.,et al.Biochemistry 28:7476-7486(1989).  
Makrides S.,et al.Nucleic Acids Res. 16:2349-2349(1988).  
Coggin J.H. Jr.,et al.Anticancer Res. 19:5535-5542(1999).  
Lee I.Y.,et al.Submitted (JAN-2006) to the EMBL/GenBank/DDBJ databases.  
Carninci P.,et al.Science 309:1559-1563(2005).

## Images

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WB Suggested Anti-Rpsa Antibody Titration: 1.0 µg/ml  
Positive Control: Mouse Heart

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.