

## RPSA Protein, Human, Recombinant (His & Myc)

### General Information

Synonyms:	LAMR1; Small ribosomal subunit protein uS2; Laminin-binding protein precursor p40 (LBP/p40); 37 kDa laminin receptor precursor (37LRP); Multidrug resistance-associated protein MGr1-Ag; 40S ribosomal protein SA; Laminin receptor 1 (LamR); 67 kDa laminin receptor (67LR); NEM/1CHD4; 37/67 kDa laminin receptor (LRP/LR); Colon carcinoma laminin-binding protein; RPSA; LAMBR
Protein Construction:	2-295 aa
Species:	Human
Expression Host:	E. coli
Accession:	P08865
Molecular Weight:	37.7 kDa (predicted)
AA Sequence:	SGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVDPRADHQPLTEASYVNLPTIALCN TDSPLRYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKA VTKEEFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAPTAAQATEWVGAT TDWS

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

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.; (Microbial infection) Acts as a receptor for the Adeno-associated viruses 2,3,8 and 9.; (Microbial infection) Acts as a receptor for the Dengue virus.; (Microbial infection) Acts as a receptor for the Sindbis virus.; (Microbial infection) Acts as a receptor for the Venezuelan equine encephalitis virus.; (Microbial infection) Acts as a receptor for the pathogenic prion protein.; (Microbial infection) Acts as a receptor for bacteria.

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