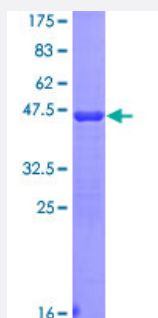


RPSA (Human) Recombinant Protein (Q01)

Catalog # H00003921-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human RPSA partial ORF (NP_002286, 196 a.a. - 295 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	EVMPDLFYRDPEEIEKEEQAAAEKAVTKEEFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPI QQFPTEDWSAQPATEDWSAAPTAAQATEWVGATTDWS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (98); Rat (98)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RPSA

Entrez GeneID [3921](#)

GeneBank Accession# [NM_002295](#)

Protein Accession# [NP_002286](#)

Gene Name RPSA

Gene Alias 37LRP, 67LR, LAMBR, LAMR1, LRP, p40

Gene Description ribosomal protein SA

Omim ID [150370](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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]

Other Designations 67kD, ribosomal protein SA|laminin receptor 1 (67kD, ribosomal protein SA)

Pathway

- [Ribosome](#)