

Recombinant Human RPSA therapeutic protein

Cat. No. RPSA-P023H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human RPSA therapeutic protein
Species	Human
Description	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.
Endotoxin	< 0.1 EU per µg of the protein

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Purity >94%

GENE INFORMATION

Gene Name RPSA ribosomal protein SA [Homo sapiens]

Official Symbol RPSA

Synonyms

SA; LBP; LRP; p40; 67LR; ICAS; lamR; 37LRP; LAMBR; LAMR1; LRP/LR; LBP/p40; NEM/1CHD4; 37 kDa laminin receptor; 37/67 kDa laminin receptor; 67 kDa laminin receptor; colon carcinoma laminin-binding protein; laminin receptor 1 (67kD, ribosomal protein SA); laminin-binding protein precursor p40; multidrug resistance-associated protein MGr1-Ag

Gene ID 3921

mRNA Refseq NM_001304288

Protein Refseq NP_001291217

MIM 150370

UniProt ID P08865

Chromosome Location 3p22.1

Pathway

Eukaryotic Translation Elongation, organism-specific biosystem; Eukaryotic Translation Termination, organism-specific biosystem; Infectious disease, organism-specific biosystem

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Function

laminin binding; laminin receptor activity; poly(A) RNA binding

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