Recombinant Human RPSA

Cat. No. RPSA-26032TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-295 of Human 67kDa Laminin Receptor, with an N-terminal proprietary tag, 33kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	295 amino acids
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

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	alternatively spliced transcript variants encoding the same protein have been found for this gene.
Molecular Weight	58.560kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYK RKSDGIYIINLKRTWEK LLLAARAIVAIENPADVSVISSR NTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAF REPR LLVVTDPRAGHQPLTEASYVNLPTIALCNTDSPLRYVDIA IPCNNKGAHSVGL MWWMLAREVLRMRGTISREHPWEVMPD LYFYRDPEEIEKEEQAAAEKAVTKEEFQ GEWTAPAPEFTA TQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAP TA QATEWVGATTDWS
Sequence Similarities	Belongs to the ribosomal protein S2P family.

GENE INFORMATION

Gene Name	RPSA ribosomal protein SA [Homo sapiens]
Official Symbol	RPSA
Synonyms	RPSA; ribosomal protein SA; laminin receptor 1 (67kD, ribosomal protein SA) ,

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	LAMR1; 40S ribosomal protein SA; 37LRP; LRP; p40; SA;
Gene ID	3921
mRNA Refseq	NM_001012321
Protein Refseq	NP_001012321
MIM	150370
Uniprot ID	P08865
Chromosome Location	3p21.3
Pathway	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; Developmental Biology, organism-specific biosystem;
Function	protein binding; receptor activity; ribosome binding; structural constituent of ribosome;

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