Recombinant Full Length Human RPSA Protein

Cat. No. RPSA-447HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-295 of Human 67 kDa Laminin Receptor, with an N-terminal proprietary tag, 33k Da inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
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.
Form	Liquid
Molecular Mass	58.560kDa inclusive of tags
AA Sequence	MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYK RKSDGIYIINLKRTWEK LLLAARAIVAIENPADVSVISSR NTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAF REPR LLVVTDPRAGHQPLTEASYVNLPTIALCNTDSPLRYVDIA IPCNNKGAHSVGL MWWMLAREVLRMRGTISREHPWEVMPD LYFYRDPEEIEKEEQAAAEKAVTKEEFQ GEWTAPAPEFTA TQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAP TA QATEWVGATTDWS
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

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) , LAMR1; 40S ribosomal protein SA; 37LRP; LRP; p40; SA
Gene ID	3921

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mRNA Refseq	NM_001012321
Protein Refseq	NP_001012321
MIM	150370
UniProt ID	P08865

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