

Anti-RPSA Picoband Antibody

Catalog # ABO11712

Product Information

Application	WB
Primary Accession	P08865
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for 40S ribosomal protein SA(RPSA) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	3921
Other Names	40S ribosomal protein SA {ECO:0000255 HAMAP-Rule:MF_03016}, 37 kDa laminin receptor precursor {ECO:0000255 HAMAP-Rule:MF_03016}, 37LRP {ECO:0000255 HAMAP-Rule:MF_03016}, 37/67 kDa laminin receptor {ECO:0000255 HAMAP-Rule:MF_03016}, LRP/LR {ECO:0000255 HAMAP-Rule:MF_03016}, 67 kDa laminin receptor {ECO:0000255 HAMAP-Rule:MF_03016}, 67LR {ECO:0000255 HAMAP-Rule:MF_03016}, Colon carcinoma laminin-binding protein, Laminin receptor 1 {ECO:0000255 HAMAP-Rule:MF_03016}, LamR {ECO:0000255 HAMAP-Rule:MF_03016}, Laminin-binding protein precursor p40 {ECO:0000255 HAMAP-Rule:MF_03016}, LBP/p40 {ECO:0000255 HAMAP-Rule:MF_03016}, Multidrug resistance-associated protein MGr1-Ag, NEM/1CHD4, RPSA {ECO:0000255 HAMAP-Rule:MF_03016}, LAMBR, LAMR1
Calculated MW	32854
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cell membrane. Cytoplasm. Nucleus . 67LR is found at the surface of the plasma membrane, with its C-terminal laminin- binding domain accessible to extracellular ligands. 37LRP is found at the cell surface, in the cytoplasm and in the nucleus (By similarity). Colocalizes with PPP1R16B in the cell membrane. .
Source	Eukaryota
Protein Name	40S ribosomal protein SA

Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived human RPSA recombinant protein (Position: S2-S138). Human RPSA shares 100% and 99.3% amino acid (aa) sequence identity with mouse and rat RPSA, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

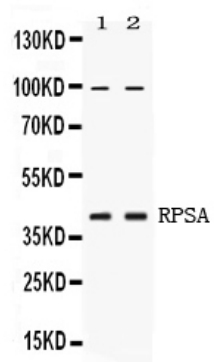
Name	RPSA {ECO:0000255 HAMAP-Rule:MF_03016}
Synonyms	LAMBR, LAMR1
Function	Required for the assembly and/or stability of the 40S ribosomal subunit. Required for the processing of the 20S rRNA- precursor to mature 18S rRNA in a late step of the maturation of 40S ribosomal subunits. Also functions as a 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.
Cellular Location	Cell membrane. Cytoplasm. Nucleus {ECO:0000255 HAMAP-Rule:MF_03016}. Note=67LR is found at the surface of the plasma membrane, with its C-terminal laminin-binding domain accessible to extracellular ligands. 37LRP is found at the cell surface, in the cytoplasm and in the nucleus (By similarity) Colocalizes with PPP1R16B in the cell membrane. {ECO:0000255 HAMAP-Rule:MF_03016}

Background

Adipose differentiation-related protein, also known as perilipin 2 (PLIN2), ADRP or adipophilin, is a protein which in humans is encoded by the ADFP gene. The protein encoded by this gene belongs to the perilipin family, members of which coat intracellular lipid storage droplets. This protein is associated with the lipid globule surface membrane material, and maybe involved in development and maintenance of adipose tissue. However, it is not restricted to adipocytes as previously thought, but is found in a wide range of cultured cell lines, including fibroblasts, endothelial and epithelial cells, and tissues, such as lactating mammary gland, adrenal cortex, Sertoli and Leydig cells, and hepatocytes in alcoholic liver cirrhosis, suggesting that it may serve as a marker of lipid accumulation in diverse cell types and diseases. Alternatively spliced transcript variants have been found for this gene.

Images

Western blot analysis of RPSA expression in HELA whole cell lysates (lane 1) and U2OS whole cell lysates (lane 2). RPSA at 40KD was detected using rabbit anti- RPSA Antigen Affinity purified polyclonal antibody (Catalog # ABO11712) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



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