abcam

Product datasheet

Anti-67kDa Laminin Receptor antibody ab245561

1 References 2 Images

Overview

Product name	Anti-67kDa Laminin Receptor antibody
Description	Rabbit polyclonal to 67kDa Laminin Receptor
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Sheep, Cow, Pig
Immunogen	Synthetic peptide within Human 67kDa Laminin Receptor aa 1-50. The exact sequence is proprietary. Database link: **P08865**
Positive control	WB: HeLa, HEK-293T, Jurkat, TCMK-1 and NIH/3T3 whole cell lysate. IP: HEK-293T whole cell lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: Tris citrate/phosphate pH 7 to 8
Purity	Immunogen affinity purified
Purification notes	ab245561 was affinity purified using an epitope specific to 67kDa Laminin Receptor immobilized

	on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab245561 in the following tested applications.

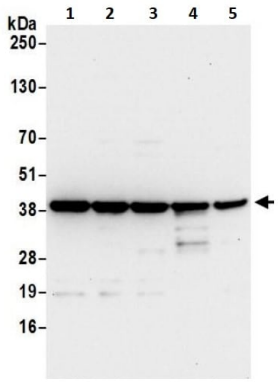
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 33 kDa.
IP		Use at 2-10 µg/mg of lysate.

Target

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. Also acts as a receptor for several other ligands, including the pathogenic prion protein, viruses, and bacteria.
Sequence similarities	Belongs to the ribosomal protein S2P family.
Post-translational modifications	Acylated. Acylation may be a prerequisite for conversion of the monomeric 37 kDa laminin receptor precursor (37LRP) to the mature dimeric 67 kDa laminin receptor (67LR), and may provide a mechanism for membrane association. Cleaved by stromelysin-3 (ST3) at the cell surface. Cleavage by stromelysin-3 may be a mechanism to alter cell-extracellular matrix interactions.
Cellular 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). Co-localizes with PPP1R16B in the cell membrane.

Images



Western blot - Anti-67kDa Laminin Receptor antibody (ab245561)

All lanes : Anti-67kDa Laminin Receptor antibody (ab245561) at 0.1 µg/ml

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 2 : HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 3 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate
Lane 4 : TCMK-1 (Mouse kidney epithelial cell line) whole cell lysate
Lane 5 : NIH/3T3 (Mouse embryo fibroblast cell line) whole cell lysate

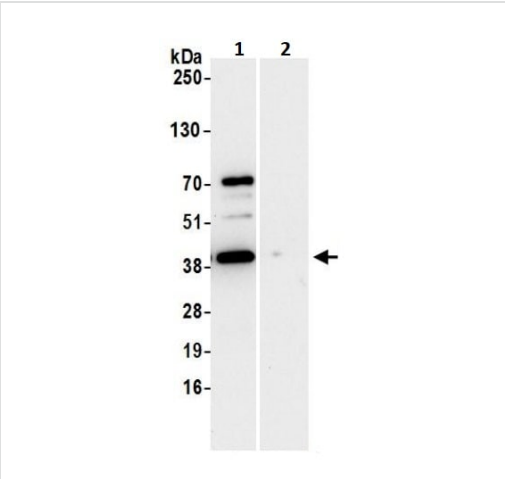
Lysates/proteins at 50 µg per lane.

Developed using the ECL technique.

Predicted band size: 33 kDa

Exposure time: 10 seconds

Prepared using NETN lysis buffer.



Immunoprecipitation - Anti-67kDa Laminin Receptor antibody (ab245561)

67kDa Laminin Receptor was immunoprecipitated from HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate (1 mg per IP reaction; 20% of IP loaded) prepared using NETN lysis buffer.
ab245561 used for IP at 6 µg per reaction. For WB 0.4 µg/ml.

Lane 1: ab245561 IP in HEK-293T whole cell lysate.
Lane 2: Control IgG IP in HEK-293T whole cell lysate.

Chemiluminescence detection: 10 seconds.

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