Product name
Anti-67kDa Laminin Receptor antibody

Description
Rabbit polyclonal to 67kDa Laminin Receptor

Host species
Rabbit

Tested applications
Suitable for: ICC/IF, IHC-P, WB

Species reactivity
Reacts with: Mouse, Human
Predicted to work with: Rat, Cow, Pig, Monkey

Immunogen
Recombinant fragment, corresponding to a region within amino acids 1-294 of Human 67kDa Laminin Receptor (Uniprot ID: P08865).

Positive control
293T, A431, H1299, HeLa, HepG2, MOLT4, Raji and Mouse brain whole cell lysates; HeLa cells; Human CA922 xenograft tissue.

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer
pH: 7.00
Preservative: 0.01% Thimerosal (merthiolate)
Constituents: 20% Glycerol, PBS, 1% BSA

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications
Our Abpromise guarantee covers the use of ab137388 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>ICC/IF</td>
<td>1/100 - 1/1000.</td>
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## 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.

## Target

### Images

- **Western blot - Anti-67kDa Laminin Receptor antibody (ab137388)** at 1/1000 dilution + HepG2 whole cell lysate at 30 µg
  
  **Predicted band size:** 33 kDa

- **IHC-P**
  
  1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. or Tris-EDTA buffer (pH8.0)

- **WB**
  

## Application

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Anti-67kDa Laminin Receptor antibody (ab137388) at 1/1000 dilution + Mouse brain whole cell lysate at 50 µg

**Predicted band size:** 33 kDa

12% SDS PAGE

Immunofluorescence analysis of paraformaldehyde-fixed HeLa cells, labelling 67kDa Laminin Receptor with ab137388 at 1/200 dilution. Lower image is merged with DNA probe.

Immunohistochemical analysis of paraffin-embedded Human CA922 xenograft tissue, labelling 67kDa Laminin Receptor with ab137388 at 1/500 dilution.
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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