Product datasheet

Anti-67kDa Laminin Receptor antibody [EPR8468] ab133775

Overview

Product name Anti-67kDa Laminin Receptor antibody [EPR8468]
Description Rabbit monoclonal [EPR8468] to 67kDa Laminin Receptor
Host species Rabbit
Tested applications Suitable for: WB, IHC-P, Flow Cyt
Unsuitable for: ICC or IP
Species reactivity Reacts with: Mouse, Rat, Human
Immunogen A synthetic peptide corresponding to residues in Human 67kDa Laminin Receptor (UniProt ID: P08865)
Positive control WB: Lysates of K562, HeLa, HepG2, C6, RAW 264.7, PC 12, NIH/3T3 IHC-P: Human brain tissue, Human kidney tissue

General notes

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents

This product is a recombinant rabbit monoclonal antibody.

Properties

Form Liquid
Storage instructions Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant ($K_D$) $K_D = 6.70 \times 10^{-11} \text{ M}$

Storage buffer pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant

Purity
Tissue culture supernatant

Clonality
Monoclonal

Clone number
EPR8468

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab133775 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tr>
<td>WB</td>
<td>1/1000 - 1/10000. Detects a band of approximately 43 kDa (predicted molecular weight: 33 kDa).</td>
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<tr>
<td>IHC-P</td>
<td>1/250 - 1/500.</td>
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<tr>
<td>Flow Cyt</td>
<td>1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
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Application notes
Is unsuitable for ICC or IP.

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 [EPR8468] (ab133775)

**All lanes:** Anti-67kDa Laminin Receptor antibody [EPR8468] (ab133775) at 1/1000 dilution

**Lane 1:** K562 cell lysate

**Lane 2:** HeLa cell lysate

**Lane 3:** HepG2 cell lysate

**Lane 4:** C6 cell lysate

**Lane 5:** RAW 264.7 cell lysate

**Lane 6:** PC12 cell lysate

**Lane 7:** NIH/3T3 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

All lanes: HRP labelled Goat anti Rabbit IgG at 1/2000 dilution

**Predicted band size:** 33 kDa

**Observed band size:** 43 kDa

**why is the actual band size different from the predicted?**

ab133775, at 1/250, staining 67kDa Laminin Receptor in paraffin-embedded Human brain tissue using immunohistochemical analysis.

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)**

- Anti-67kDa Laminin Receptor antibody [EPR8468] (ab133775)
ab133775, at 1/250, staining 67kDa Laminin Receptor in paraffin-embedded Human kidney tissue using immunohistochemical analysis.

Equilibrium disassociation constant ($K_D$)
Learn more about $K_D$

Click here to learn more about $K_D$

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