Product datasheet

Anti-Mannose Receptor antibody ab64693

20 Abreviews  92 References  5 Images

Overview

Product name: Anti-Mannose Receptor antibody
Description: Rabbit polyclonal to Mannose Receptor
Host species: Rabbit
Specificity: We obtained a weaker signal with mouse samples than with human samples in Western blot when the same amount of protein was used.

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

Species reactivity:
- Reacts with: Mouse, Rat, Human
- Predicted to work with: Chimpanzee, Rhesus monkey

Immunogen:
Synthetic peptide conjugated to KLH derived from within residues 1400 to the C-terminus of Human Mannose Receptor. Read Abcam's proprietary immunogen policy (Peptide available as ab66694.)

Positive control:
This antibody gave a positive signal with Rat Liver Tissue Lysate and in FFPE human lung tissue sections.

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 or -80°C. Avoid freeze / thaw cycle.

Storage buffer:
Preservative: 0.02% Sodium Azide
Constituents: 1% BSA, PBS, pH 7.4

Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab64693 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
<table>
<thead>
<tr>
<th>Application</th>
<th>Abviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 0.1 - 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. We do not recommend methanol fixation with this antibody</td>
</tr>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 190 kDa (predicted molecular weight: 166 kDa).</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use at an assay dependent concentration. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 1 µg/ml.</td>
</tr>
</tbody>
</table>

**Target**

**Function**
Mediates the endocytosis of glycoproteins by macrophages. Binds both sulfated and non-sulfated polysaccharide chains. Acts as phagocytic receptor for bacteria, fungi and other pathogens.

**Sequence similarities**
Contains 8 C-type lectin domains. Contains 1 fibronectin type-II domain. Contains 1 ricin B-type lectin domain.

**Cellular localization**
Membrane.

**Images**
IHC image of ab64693 staining in human lung formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab64693, 0.1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

Anti-Mannose Receptor antibody (ab64693) at 1 µg/ml + Liver (Rat) Tissue Lysate at 10 µg

**Secondary**
Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

**Predicted band size:** 166 kDa

**Observed band size:** 190 kDa
Immunocytochemistry/ Immunofluorescence - Anti-Mannose Receptor antibody (ab64693)

ICC/IF image of ab64693 stained HepG2 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab64693, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 Goat anti-Rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue). This antibody also gave a positive result in 4% PFA fixed (10 min) HeLa, HepG2, Hek293 cells at 1µg/ml, and in 100% Methanol fixed (5 min) HeLa, Hek293, MCF-7 cells at 5µg/ml.

Western blot - Anti-Mannose Receptor antibody (ab64693)

All lanes : ab64693 at 10 µg
Lane 1 : Liver (Rat) Tissue Lysate at 10 µg
Lane 2 : Lung (Human) tissue lysate at 10 µg
Lane 3 : Lung (Rat) tissue lysate at 10 µg
Lane 4 : Lung (Mouse) tissue lysate

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 166 kDa
Observed band size: 190 kDa
Additional bands at: 41 kDa (possible non-specific binding), 50 kDa (possible non-specific binding), 56 kDa (possible non-specific binding)

Exposure time: 4 minutes
ab64693 staining Mannose Receptor in Mouse heart tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with acetone and blocked with 0.075% H₂O₂ for 10 minutes at room temperature. Samples were incubated with primary antibody (1/100 in 1x PBS + 10% heat inactivated FCS) for 1 hour. An undiluted HRP-conjugated Rabbit anti-rabbit IgG polyclonal was used as the secondary antibody.

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