Product datasheet

Anti-GRP94 antibody ab3674

⭐⭐⭐⭐⭐ 10 Abreviews  9 References  5 Images

Overview

Product name       Anti-GRP94 antibody
Description        Rabbit polyclonal to GRP94
Host species       Rabbit
Specificity        At a very high concentration (<1/100), this antibody may recognise PDI and calreticulin. We recommend using this antibody at a relatively high dilution.

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

Species reactivity
Reacts with: Mouse, Human

Immunogen
Whole protein from dog pancreas.

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: 0.01% Sodium Azide

Purity
Whole antiserum

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab3674 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>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC</td>
<td></td>
<td>1/100.</td>
</tr>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐☆</td>
<td>1/2000 - 1/5000. Detects a band of approximately 94 kDa. Can be used at dilutions up to 1/30,000.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
</tr>
</tbody>
</table>
Function
Molecular chaperone that functions in the processing and transport of secreted proteins. Functions in endoplasmic reticulum associated degradation (ERAD). Has ATPase activity.

Sequence similarities
Belongs to the heat shock protein 90 family.

Cellular localization
Endoplasmic reticulum lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Application
<table>
<thead>
<tr>
<th>Abreviews</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
</tr>
</tbody>
</table>

Target

Images

Immunostaining of mouse embryonic fibroblasts with ab3674. (See Nakamura et al. 2001). 

Anti-GRP94 antibody (ab3674) at 1/2000 dilution + Cell lysates prepared from mouse fibroblasts

Western blot of mouse fibroblasts using ab3764 at 1/2000.

ab3674 at a 1/100 dilution staining human renal cell carcinoma cells by ICC/IF. The cells were permeabilized with 0.2% triton X100 and then blocked with 1%BSA, 4% goat serum prior to incubation with the primary 1antibody for 30 min at 37 °C. Bound antibody was detected using an Alexa fluoro 488 Goat anti-Rabbit IgG (H+L).
Ab3674 (1/1000) staining GPR94 in human stomach using an automated system (DAKO Autostainer Plus). Using this protocol there is strong cytoplasmic staining of peptic and parietal cells of the gastric gland.

Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX.

Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.
Western blot - Anti-GRP94 antibody (ab3674)

Image courtesy of an anonymous Abreview.

**All lanes**: Anti-GRP94 antibody (ab3674) at 1/2000 dilution

**Lane 1**: Whole cell lysate prepared from murine 3T3 cells

**Lane 2**: Whole cell lysate prepared from murine 3T3 cells, treated with 2.5 µg/ml Tunicamycin 10 hours

Lysates/proteins at 50 µg per lane.

**Secondary**

**All lanes**: HRP conjugated goat anti-rabbit IgG at 1/2000 dilution

Developed using the ECL technique.

**Observed band size**: 94 kDa

**Exposure time**: 30 seconds

**Please note**: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [http://www.abcam.com/abpromise](http://www.abcam.com/abpromise) or contact our technical team.

**Terms and conditions**

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors