Product datasheet

Anti-GRP94 antibody [EPR3988] ab108606

Overview

Product name: Anti-GRP94 antibody [EPR3988]
Description: Rabbit monoclonal [EPR3988] to GRP94
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P, ICC
Unsuitable for: Flow Cyt or IP
Species reactivity: Reacts with: Mouse, Human
Immunogen: Synthetic peptide within Human GRP94 aa 650-750 (internal sequence). The exact sequence is proprietary.
Positive control: WB: T47D, HeLa, K-562, Jurkat and HepG2 cell lysates. IHC-P: Human breast and gastric adenocarcinoma tissue.
General notes: Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.
We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.
This product is a recombinant rabbit monoclonal antibody.

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. Stable for 12 months at -20°C.
Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: PBS, 40% Glycerol, 0.5% BSA
Purity: Protein A purified
Clonality: Monoclonal
Clone number: EPR3988
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab108606 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>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/1000 - 1/10000. Detects a band of approximately 94 kDa (predicted molecular weight: 92 kDa).</td>
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<tr>
<td>IHC-P</td>
<td>1/100 - 1/250. Antigen retrieval is recommended.</td>
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<tr>
<td>ICC</td>
<td>1/50 - 1/100.</td>
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Application notes: Is unsuitable for Flow Cyt or IP.

Target

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.

Images

All lanes: Anti-GRP94 antibody [EPR3988] (ab108606) at 1/1000 dilution

Lane 1: T47D cell lysate
Lane 2: HeLa cell lysate
Lane 3: K562 cell lysate
Lane 4: Jurkat cell lysate
Lane 5: HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes: HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 92 kDa
Observed band size: 94 kDa
why is the actual band size different from the predicted?

Ab108606 staining GRP94 in paraffin embedded Human hepatocellular carcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin embedded sections). Samples are incubated in primary antibody at 1:1000 dilution (0.57µg/ml). A ready to use Goat Anti-Rabbit IgG H&L (HRP) was used as the secondary antibody. Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0). Hematoxylin was used as a counterstain. Cytoplasmic staining on human hepatocellular carcinoma.

Ab108606 staining GRP94 in paraffin embedded Human lung carcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin embedded sections). Samples are incubated in primary antibody at 1:1000 dilution (0.57µg/ml). A ready to use Goat Anti-Rabbit IgG H&L (HRP) was used as the secondary antibody. Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0). Hematoxylin was used as a counterstain. Cytoplasmic staining on human lung carcinoma.
Ab108606 staining GRP94 in paraffin embedded Mouse liver carcinoma tissue sections by Immunohistochemistry (IHC-P-formalin/PFA-fixed, paraffin embedded sections). Samples are incubated in primary antibody at 1:1000 dilution (0.57µg/ml). A ready to use Goat Anti-Rabbit IgG H&L (HRP) was used as the secondary antibody. Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0). Hematoxylin was used as a counterstain. Cytoplasmic staining on mouse liver.

ab108606, at 1/100 dilution, staining GRP94 in paraffin-embedded Human breast tissue by Immunohistochemistry.
ab108606, at 1/100 dilution, staining GRP94 in paraffin-embedded Human gastric adenocarcinoma tissue by Immunohistochemistry.

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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