

Product datasheet

Anti-GRP94 antibody [EPR3988] α b108606

KO VALIDATED

Recombinant

RabMAb

[9 References](#) [8 Images](#)

Overview

Product name	Anti-GRP94 antibody [EPR3988]
Description	Rabbit monoclonal [EPR3988] to GRP94
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293T, T47D, HeLa, K-562, Jurkat and HepG2 cell lysates. IHC-P: Human breast and gastric adenocarcinoma tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

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 (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR3988
Isotype	IgG

Applications

The Abpromise guarantee 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.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 94 kDa (predicted molecular weight: 92 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Antigen retrieval is recommended.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

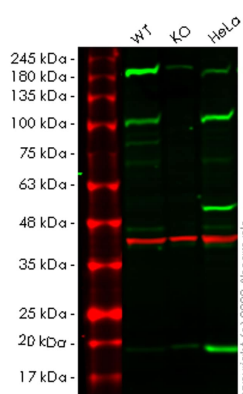
Target

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



Western blot - Anti-GRP94 antibody [EPR3988]
(ab108606)

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

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : HSP90B1 knockout HEK293T cell lysate

Lane 3 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

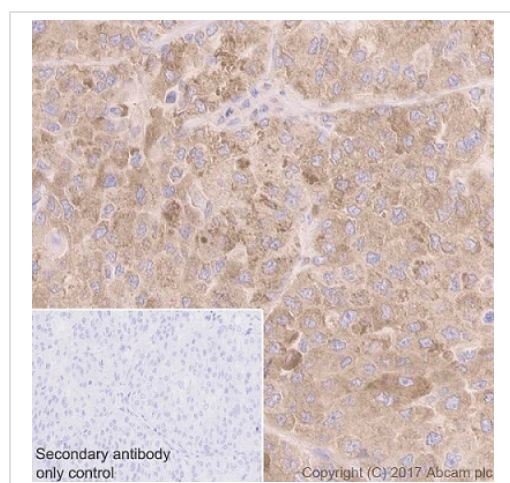
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 92 kDa

Observed band size: 94 kDa

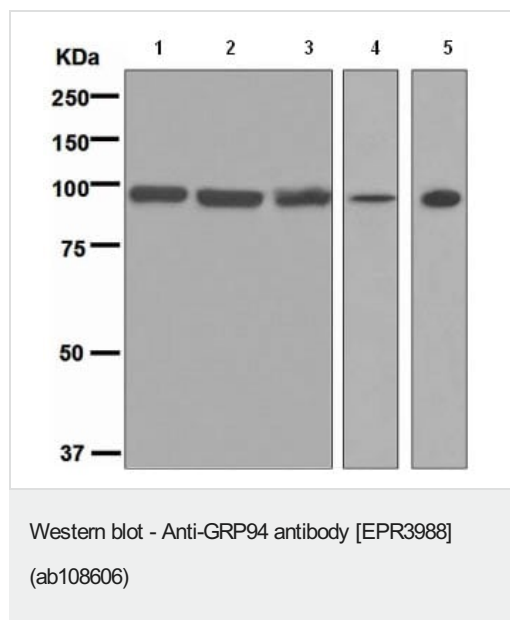
Lanes 1-3: Merged signal (red and green). Green - ab108606 observed at 94 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab108606 Anti-GRP94 antibody [EPR3988] was shown to specifically react with GRP94 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266313** (knockout cell lysate **ab257254**) was used. Wild-type and GRP94 knockout samples were subjected to SDS-PAGE. ab108606 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



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 (0.57 µg/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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [EPR3988] (ab108606)



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

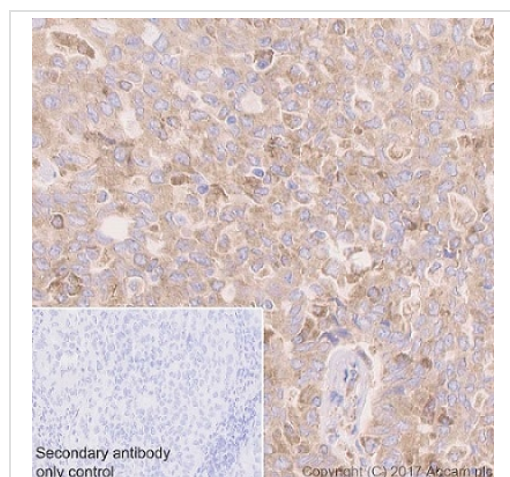
Lysates/proteins at 10 µg per lane.

Secondary

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

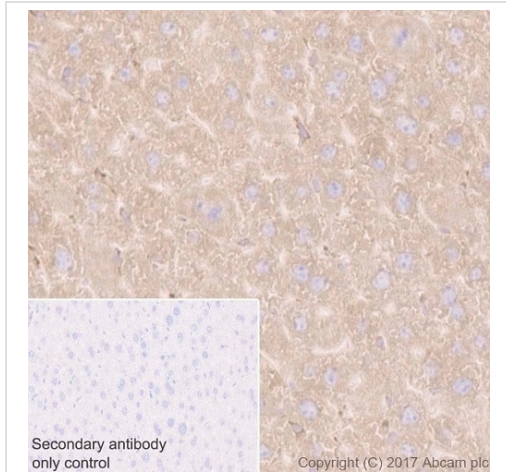
Predicted band size: 92 kDa

Observed band size: 94 kDa



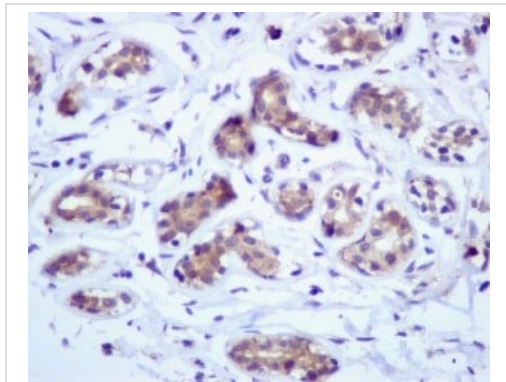
Ab108606 staining GRP94 in paraffin embedded Human lung carcinoma tissue sections by Immunohistochemistry (IHC-P-paraformaldehyde-fixed, paraffin embedded sections). Samples are incubated in primary antibody at 1:1000 dilution (0.57µg/ml). A ready to use Goat Anti-Rabbit IgG H&L (HRP) was used as the 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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [EPR3988] (ab108606)



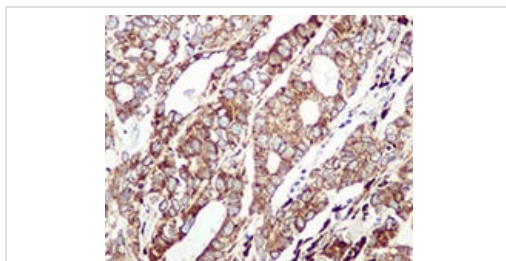
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [EPR3988] (ab108606)

Ab108606 staining GRP94 in paraffin embedded Mouse liver 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 mouse liver.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [EPR3988] (ab108606)

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [EPR3988] (ab108606)

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

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-GRP94 antibody [EPR3988] (ab108606)

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

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