

Product datasheet

Anti-GRP94 antibody ab3674

★★★★★ [10 Abreviews](#) [32 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: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Full length native protein (purified) corresponding to Dog GRP94 aa 1 to the C-terminus. Database link: P41148
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab3674 in the following tested applications.

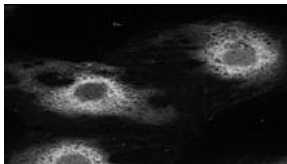
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (4)	1/2000 - 1/5000. Detects a band of approximately 94 kDa. Can be used at dilutions up to 1/30,000.
IHC-P		1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF	★★★★★ (6)	Use at an assay dependent concentration. Used at a concentration of 1/100 for 30 min on human renal carcinoma cell (see Abreview).

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



Immunocytochemistry/ Immunofluorescence - Anti-GRP94 antibody (ab3674)

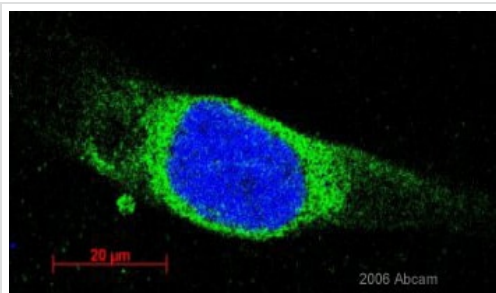
Immunostaining of mouse embryonic fibroblasts with ab3674. (See Nakamura et al. 2001).



Western blot - Anti-GRP94 antibody (ab3674)

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

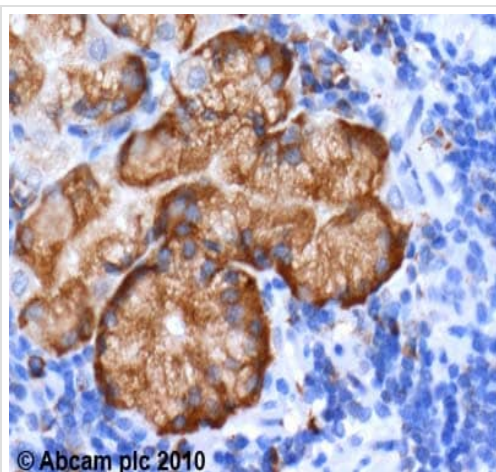
Western blot of mouse fibroblasts using **ab3764** at 1/2000.



Immunocytochemistry/ Immunofluorescence - Anti-GRP94 antibody (ab3674)

This image is courtesy of an anonymous Abreview

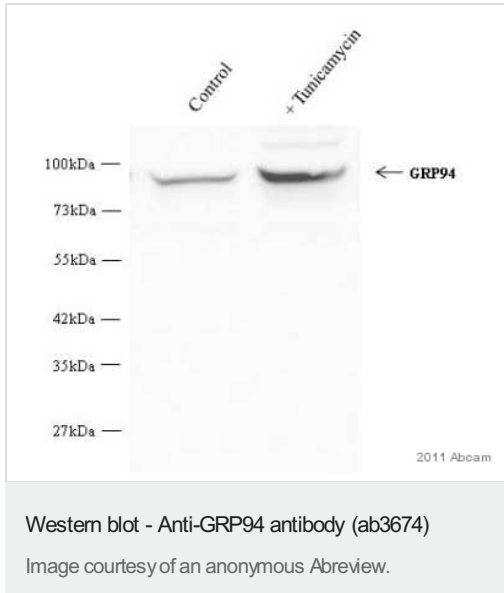
ab3674 at a 1/100 dilution staining human renal cell carcinoma cells by ICC/IF. The cells were permeabilized with 0.2% triton X100 and then blocked with 1%BSA, 4% goat serum prior to incubation with the primary 1 antibody for 30 min at 37 °C. Bound antibody was detected using an Alexa fluor ® 488 Goat anti-Rabbit IgG (H+L).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody (ab3674)

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.



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 ug/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

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