


# Anti-GRP78 BiP antibody ab32618

[50 References](#) [4 Images](#)

### Overview

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<b>Product name</b>	Anti-GRP78 BiP antibody
<b>Description</b>	Rabbit polyclonal to GRP78 BiP
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human, Chinese hamster <b>Predicted to work with:</b> Rat, Chicken, Hamster, Xenopus laevis 
<b>Immunogen</b>	Synthetic peptide within Human GRP78 BiP aa 1-100. The exact sequence is proprietary. Database link: <a href="#">P11021</a>
<b>Positive control</b>	HeLa cells, breast carcinoma.
<b>General notes</b>	<p><b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b></p> <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&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

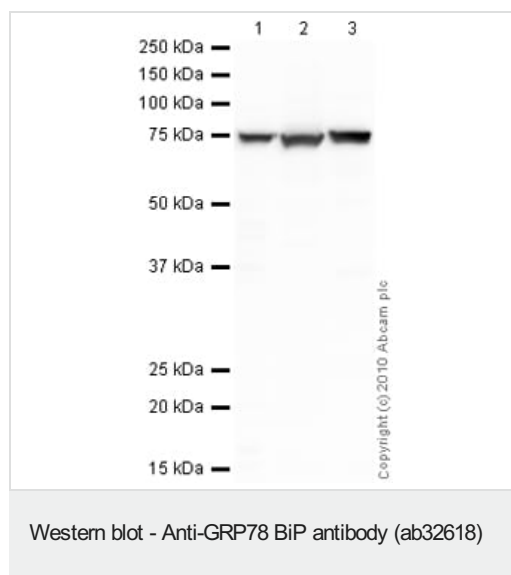
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab32618 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 75 kDa (predicted molecular weight: 78 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/100.

## Target

<b>Function</b>	Probably plays a role in facilitating the assembly of multimeric protein complexes inside the endoplasmic reticulum. Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10, probably to facilitate the release of DNAJC10 from its substrate.
<b>Involvement in disease</b>	Autoantigen in rheumatoid arthritis.
<b>Sequence similarities</b>	Belongs to the heat shock protein 70 family.
<b>Cellular localization</b>	Endoplasmic reticulum lumen. Melanosome. Cytoplasm. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

## Images



**All lanes** : Anti-GRP78 BiP antibody (ab32618) at 1 µg/ml

**Lane 1** : Liver (Mouse) Tissue Lysate

**Lane 2** : CHO-K1 cell lysate Whole Cell Lysate

**Lane 3** : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

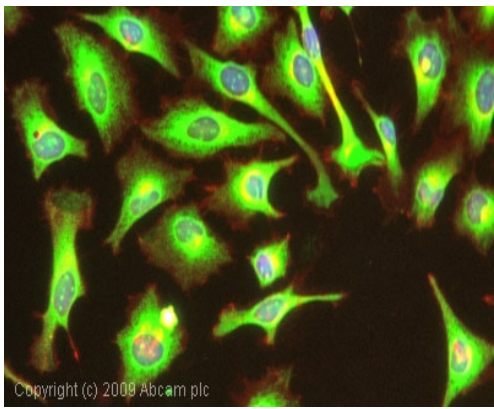
Performed under reducing conditions.

**Predicted band size:** 78 kDa

**Observed band size:** 75 kDa

**Exposure time:** 30 seconds

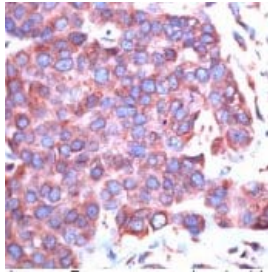
The band observed at 75 kDa could potentially be a cleaved form of GRP78 BiP due to the presence of a 18 amino acid signal peptide.



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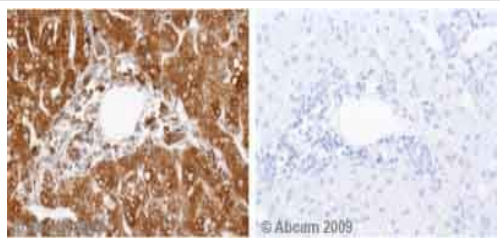
Immunocytochemistry/ Immunofluorescence - Anti-GRP78 BiP antibody (ab32618)

ICC/IF image of ab32618 stained HeLa cells. The cells were 100% methanol fixed (5 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 (ab32618, 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) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP78 BiP antibody (ab32618)

This image shows human breast carcinoma stained with ab32618 diluted 1/100.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP78 BiP antibody (ab32618)

Ab32618 staining Human normal liver parenchyma. Staining is localised to endoplasmic reticulum compartment.

Left panel: with primary antibody at 2 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus , at room temperature: sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffers citrate pH6.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H<sub>2</sub>O<sub>2</sub> 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 we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be requi

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