Anti-GRP78 BiP antibody ab32618

10 References | 4 Images

Overview

Product name	Anti-GRP78 BiP antibody
Description	Rabbit polyclonal to GRP78 BiP
Tested applications	WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Chicken, Human **Predicted to work with:** Rat, Hamster, Xenopus laevis
Immunogen	Synthetic peptide: KEDVGTV VGIDLGTTYS CVG , corresponding to amino acids 24-43 of Human GRP78 BiP Run BLAST with NCBI Run BLAST with ExPASy
Positive control	HeLa cells, breast carcinoma.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: 1% BSA, 10mM PBS, pH 7.4
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab32618** in the following tested applications.

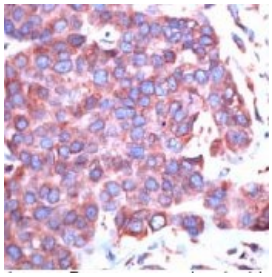
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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		Use a concentration of 1 µg/ml.

Target

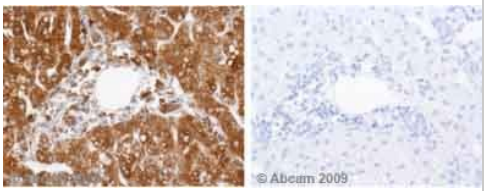
Function	Probably plays a role in facilitating the assembly of multimeric protein complexes inside the endoplasmic reticulum. Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10, probably to facilitate the release of DNAJC10 from its substrate.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

Anti-GRP78 BiP antibody images



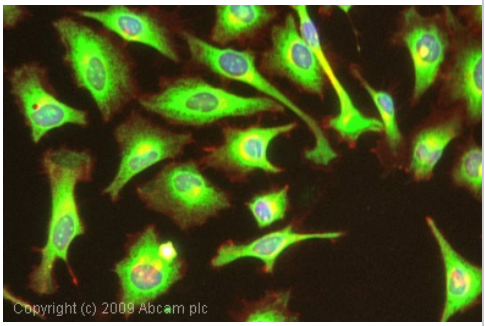
Microtomy (Formalin-fixed paraffin-embedded sections) - GRP78 BiP antibody (ab32618)

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



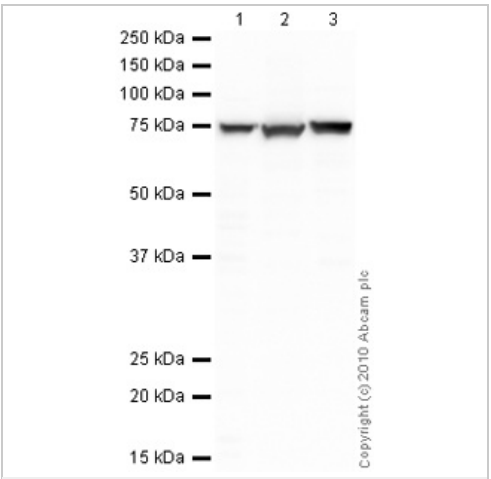
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - GRP78 BiP antibody (ab32618)

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% 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 we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



Immunocytochemistry/ Immunofluorescence-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.



Western blot - GRP78 BiP antibody (ab32618)

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

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

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