abcam

Product datasheet

Anti-ERp29 antibody ab42002

1 Abreviews 2 References 3 图像

概述

产品名称	Anti-ERp29抗体
描述	**兔多克隆抗体**to ERp29
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P, ICC/IF
种属反应性	**与反应:** Human **预测可用于:** Mouse, Cow
免疫原	Synthetic peptide conjugated to KLH derived from within residues 200 to the C-terminus of Human ERp29.参阅Abcam的专有抗源政策(Peptide available as ab42001.)
阳性对照	This antibody gave a positive signal in Human Liver Tissue Lysate.

性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab42002** in the following tested applications.

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

应用	Ab评论	说明
WB		Use a concentration of 2 µg/ml. Detects a band of approximately 29 kDa (predicted molecular weight: 29 kDa).
IHC-P		Use a concentration of 1 µg/ml.

应用	Ab评论	说明
ICC/IF	★☆☆☆☆	Use a concentration of 5 µg/ml.

靶标

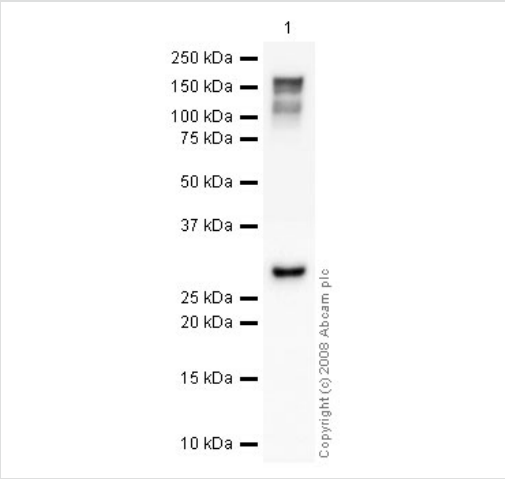
相关性

Proper protein folding and post-translational modifications are essential for secretory protein export out of the endoplasmic reticulum. This task is accomplished by chaperone proteins such as protein disulfide isomerase (PDI), GRP94, and BiP. A recently characterized protein, designated ERp29, is closely related to these chaperone proteins and appears to be upregulated during ER stress conditions. ERp29 is a soluble 259-residue protein that is localized to the lumen of the endoplasmic reticulum in all mammalian cells. Research has shown that there are two primary domains within ERp29. The first is the C-terminal region that is a novel, all helical, fold that is most likely involved with ERp29 retention to the ER. The second is the N-terminal region that resembles that of PDI's thioredoxin module. The protein shows sequence similarity to the protein disulfide isomerase family. However, it lacks the thioredoxin motif characteristic of this family, suggesting that this protein does not function as a disulfide isomerase. The protein dimerizes and is thought to play a role in the processing of secretory proteins within the ER.

细胞定位

Endoplasmic reticulum, Cell surface.

图片



Western blot - Anti-ERp29 antibody (ab42002)

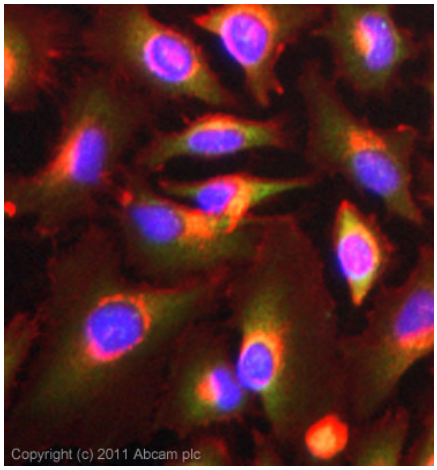
Anti-ERp29 antibody (ab42002) at 2 µg/ml + Human liver tissue lysate - total protein (ab29889) at 10 µg

Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre Adsorbed (HRP) at 1/3000 dilution

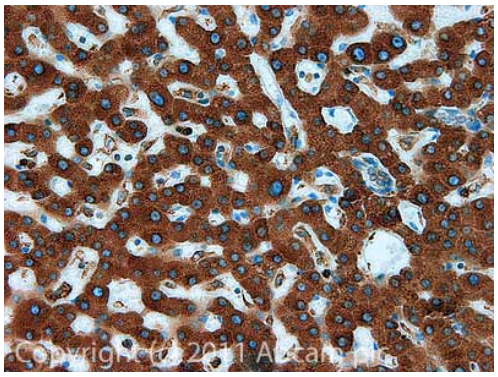
Performed under reducing conditions.

Predicted band size: 29 kDa
Observed band size: 29 kDa
Additional bands at: 100-150 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-ERp29 antibody (ab42002)

ICC/IF image of ab42002 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 (ab42002, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899 Dylight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 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-ERp29 antibody (ab42002)

IHC image of ab42002 staining ERp29 in Human liver formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab42002, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet

- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.cn/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors