

Product datasheet

Anti-GRP78 BiP antibody [EPR4040(2)] ab108613

RabMAb

13 References 7 图像

概述

产品名称	Anti-GRP78 BiP抗体[EPR4040(2)]
描述	兔单克隆抗体[EPR4040(2)] to GRP78 BiP
宿主	Rabbit
特异性	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human GRP78 BiP aa 1-100. The exact sequence is proprietary. (Peptide available as ab176143)
阳性对照	WB: HeLa, LnCaP, ECV-304, C6, NIH/3T3, PC-12, C6 (Rat glial tumor glial cell), RAW264.7 and HepG2 cell lysates. IHC-P: Human brain, ovarian cancer and testis tissue.
常规说明	

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#)

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.5% BSA

纯度	Protein A purified
克隆	单克隆
克隆编号	EPR4040(2)
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab108613** in the following tested applications.

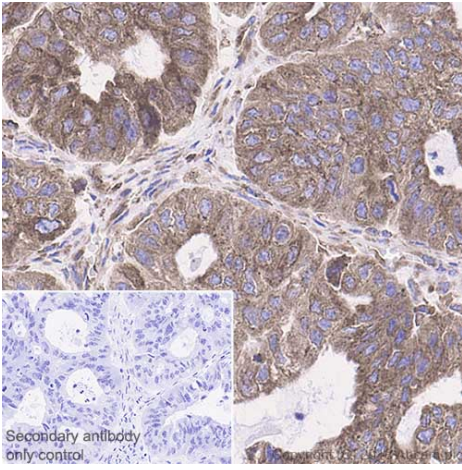
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/1000 - 1/10000. Detects a band of approximately 78 kDa (predicted molecular weight: 72 kDa). Can be blocked with GRP78 BiP peptide (ab176143) .
IHC-P		1/250 - 1/500. See IHC antigen retrieval protocols . (Heat to 98°C, allow to cool for 10-20 minutes) The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.

靶标

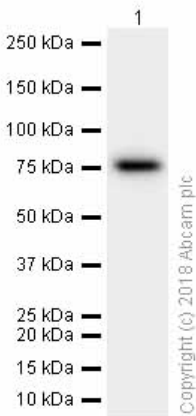
功能	Probably plays a role in facilitating the assembly of multimeric protein complexes inside the endoplasmic reticulum. Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10, probably to facilitate the release of DNAJC10 from its substrate.
疾病相关	Autoantigen in rheumatoid arthritis.
序列相似性	Belongs to the heat shock protein 70 family.
细胞定位	Endoplasmic reticulum lumen. Melanosome. Cytoplasm. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP78 BiP antibody [EPR4040(2)] (ab108613)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human ovarian cancer tissue sections labeling GRP78 BiP with Purified ab108613 at 1:500 dilution (1.17 µg/ml). Heat mediated antigen retrieval was performed using Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-GRP78 BiP antibody [EPR4040(2)] (ab108613)

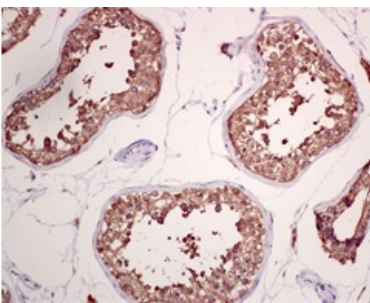
Anti-GRP78 BiP antibody [EPR4040(2)] (ab108613) at 0.1 µg/ml (purified) + C6 (Rat glial tumor glial cell) whole cell lysates at 15 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

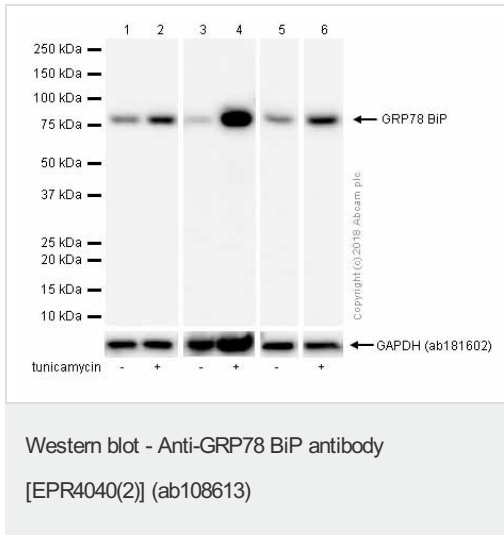
Predicted band size: 72 kDa

Blocking and diluting buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP78 BiP antibody [EPR4040(2)] (ab108613)

Immunohistochemical analysis of paraffin-embedded Human testis tissue using unpurified ab108613 at 1/250



All lanes : Anti-GRP78 BiP antibody [EPR4040(2)] (ab108613) at 1/5000 dilution (purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 10ug/ml tunicamycin for 12 hours whole cell lysates

Lane 3 : MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 4 : MCF-7 (Human breast adenocarcinoma epithelial cell) treated with 10ug/ml tunicamycin for 48 hours whole cell lysates

Lane 5 : MEF (Mouse embryonic fibroblast) whole cell lysates

Lane 6 : MEF (Mouse embryonic fibroblast) treated with 10ug/ml tunicamycin for 48 hours whole cell lysates

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 72 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

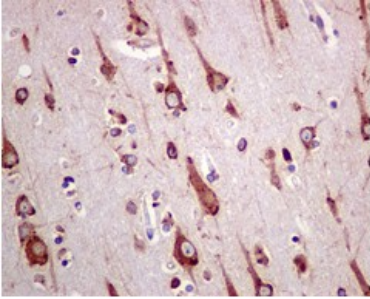
Tunicamycin induces the expression of GRP78 BiP reported by PMID 22859938

Exposure time:

Lanes 1 and 2: 3 seconds

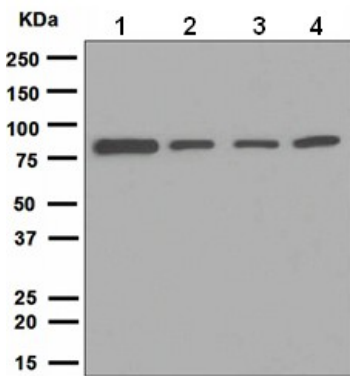
Lanes 3 and 4: 30 seconds

Lanes 5 and 6: 5 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP78 BiP antibody [EPR4040(2)] (ab108613)

Immunohistochemical analysis of paraffin-embedded Human brain tissue using unpurified ab108613 at 1/250



Western blot - Anti-GRP78 BiP antibody [EPR4040(2)] (ab108613)

All lanes : Anti-GRP78 BiP antibody [EPR4040(2)] (ab108613) at 1/1000 dilution (Unpurified)

Lane 1 : HeLa cell lysate

Lane 2 : LnCaP cell lysate

Lane 3 : ECV-304 cell lysate

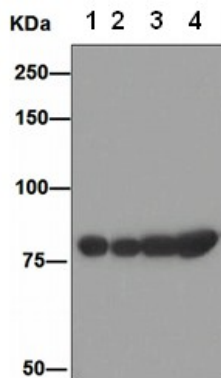
Lane 4 : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 72 kDa

Observed band size: 78 kDa

[why is the actual band size different from the predicted?](#)



Western blot - Anti-GRP78 BiP antibody
[EPR4040(2)] (ab108613)

All lanes : Anti-GRP78 BiP antibody [EPR4040(2)] (ab108613) at 1/1000 dilution (Unpurified)

Lane 1 : C6 cell lysate

Lane 2 : NIH/3T3 cell lysate

Lane 3 : PC-12 cell lysate

Lane 4 : RAW264.7 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 72 kDa

Observed band size: 78 kDa [why is the actual band size different from the predicted?](#)

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