

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

**重组** RabMAb

**48 References** 10 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	<p>The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.</p> <p>Stimulation may be required to allow detection of the target protein due to low levels of endogenous expression in some samples. Please see images below for recommended treatment conditions and positive controls.</p>
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. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, LnCaP, ECV-304, C6, NIH/3T3, PC-12, C6 (Rat glial tumor glial cell), RAW264.7, MCF7, 293T, U-87 MG, THP-1, MDA-MB-231 and HepG2 cell lysates; Human liver lysates; Mouse heart, lung, testis and liver lysates; Rat liver lysates. IHC-P: Human brain, ovarian cancer and testis tissue.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 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 (glycerin, glycerine), 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

The Abpromise guarantee      **Abpromise™**承诺保证使用ab108613于以下的经测试应用

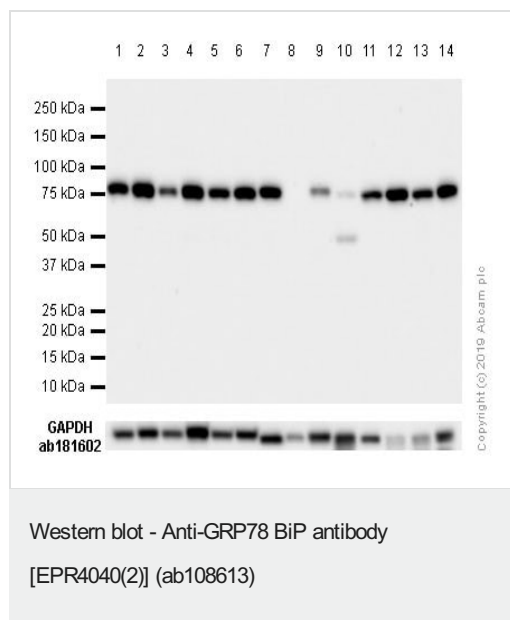
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Detects a band of approximately 78 kDa (predicted molecular weight: 72 kDa).
IHC-P		<p>1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.</p> <p>See <b><u>IHC antigen retrieval protocols</u></b>. (Heat to 98°C, allow to cool for 10-20 minutes)</p> <p>The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat</p>

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 DNAJC 10 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



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

**Lane 1 :** MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

**Lane 2 :** HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates

**Lane 3 :** 293T (Human embryonic kidney epithelial cell) whole cell lysates

**Lane 4 :** U-87 MG (Human glioblastoma-astrocytoma epithelial cell) whole cell lysates

**Lane 5 :** THP-1 (Human monocytic leukemia monocyte) whole cell lysates

**Lane 6 :** MDA-MB-231 (Human breast adenocarcinoma epithelial cell) whole cell lysates

**Lane 7 :** NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates

**Lane 8 :** Human uterus lysates

**Lane 9 :** Human liver lysates

**Lane 10 :** Mouse heart lysates

**Lane 11 :** Mouse lung lysates

**Lane 12 :** Mouse testis lysates

**Lane 13 :** Mouse liver lysates

**Lane 14 :** Rat liver lysates

Lysates/proteins at 20 µg per lane.

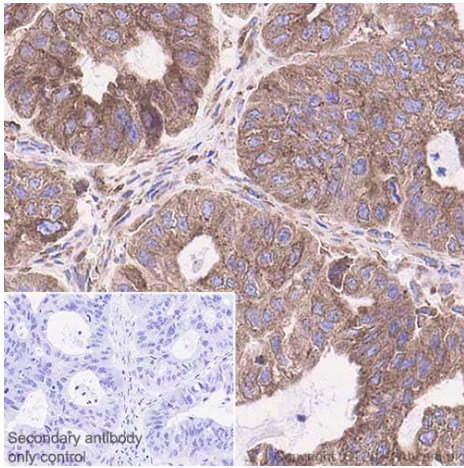
### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 72 kDa

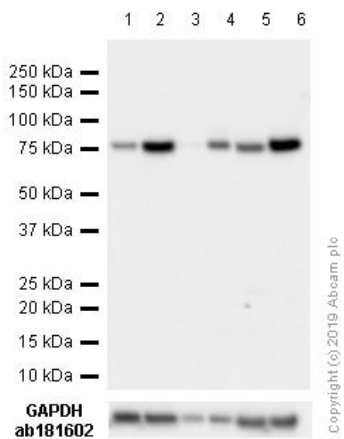
**Observed band size:** 78 kDa

**Exposure time:** 37 seconds



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 **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)

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

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

**Lane 2 :** HeLa treated with 2.5 µg/ml tunicamycin for 24h whole cell lysates

**Lane 3 :** HUVEC (Human umbilical vein endothelial cell) whole cell lysates

**Lane 4 :** HUVEC treated with 10 µg/ml tunicamycin for 48h whole cell lysates

**Lane 5 :** Raw 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysates

**Lane 6 :** Raw 264.7 treated with 5 µg/ml tunicamycin for 18h whole cell lysates

Lysates/proteins at 20 µg per lane.

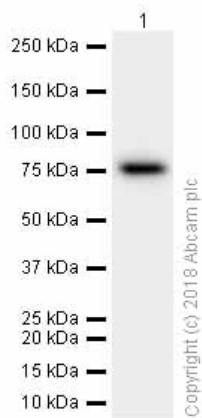
### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 72 kDa

**Observed band size:** 78 kDa

**Exposure time:** 3 seconds



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

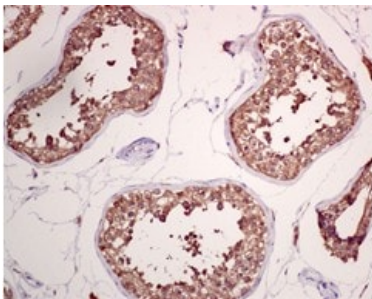
Anti-GRP78 BiP antibody [EPR4040(2)] (ab108613) at 0.1 µg/ml  
(purified) + C6 (Rat glial tumor glial cell) whole cell lysates at 15 µg

### Secondary

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

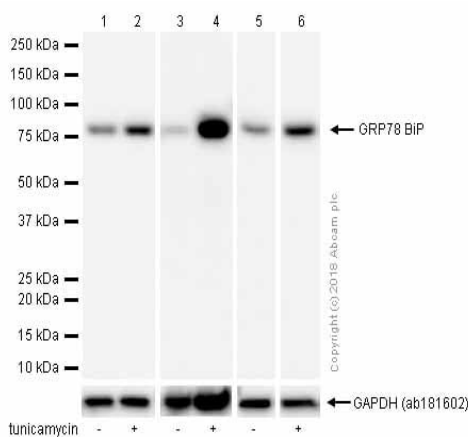
**Predicted band size:** 72 kDa

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



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

**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.

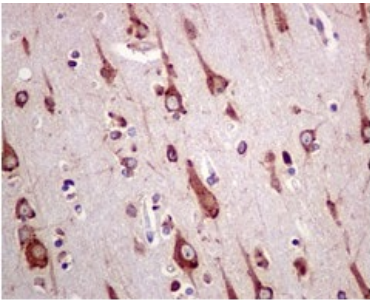
Tunicamycin induces the expression of GRP78 BiP reported by PMID 22859938

### Exposure time:

Lanes 1 and 2: 3 seconds

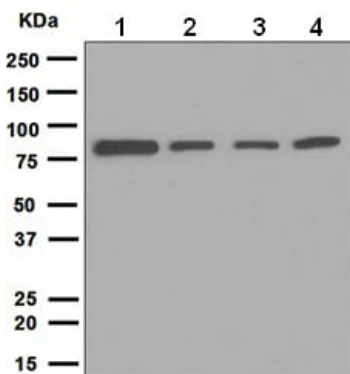
Lanes 3 and 4: 30 seconds

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

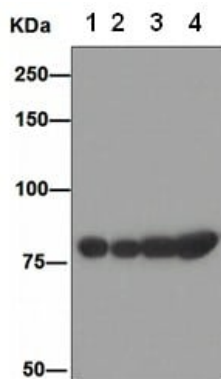
**Lane 3** : ECV-304 cell lysate

**Lane 4** : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 72 kDa

**Observed band size:** 78 kDa



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 choose a recombinant antibody?



**Research with  
confidence**  
Consistent and  
reproducible results



**Long-term and  
scalable supply**  
Recombinant  
technology



**Success from the  
first experiment**  
Confirmed  
specificity



**Ethical standards  
compliant**  
Animal-free  
production

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

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