

Anti-BNIP3 antibody [EPR4034] ab109362

敲除验证
重组
RabMAb

★★★★☆
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概述

产品名称	Anti-BNIP3抗体[EPR4034]
描述	兔单克隆抗体[EPR4034] to BNIP3
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, ICC/IF
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: Jurkat cells, Jurkat cells treated with etoposide, SH-SY5Y cells, SH-SY5Y cells treated with camptothecin and MCF-7 cells treated with Cocl2 lysates and rat kidney, mouse spleen and mouse kidney tissue lysates. IHC-P: Human renal adenocarcinoma and kidney tissues. ICC/IF: HeLa and SH-SY5Y cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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. Stable for 12 months at -20°C.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol, 59% PBS, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR4034

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab109362于以下的经测试应用

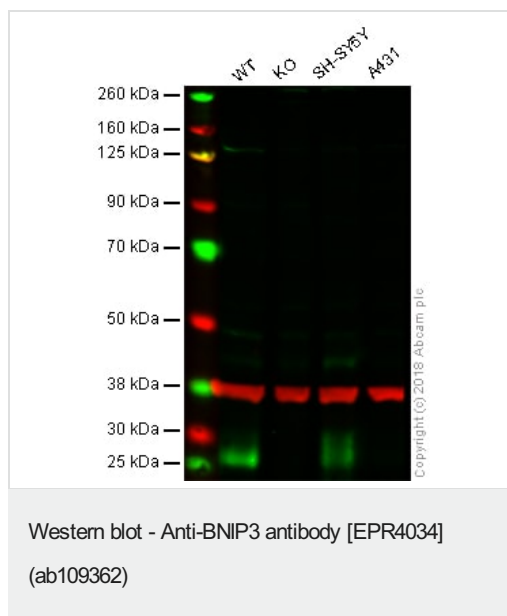
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (3)	1/1000. Detects a band of approximately 30 kDa (predicted molecular weight: 22 kDa). For unpurified use at 1/1000 - 1/10000.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols . (Heat to 98°C, allow to cool for 10-20 minutes). For unpurified use at 1/50 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an
ICC/IF		1/150. For unpurified use at 1/100 - 1/250.

靶标

功能	Apoptosis-inducing protein that, which can overcome BCL2 suppression. May play a role in repartitioning calcium between the two major intracellular calcium stores in association with BCL2.
序列相似性	Belongs to the NIP3 family.
细胞定位	Mitochondrion. Mitochondrion membrane. Coexpression with the E1B 19-kDa protein results in a shift in NIP3 localization pattern to the nuclear envelope. Colocalizes with ACAA2 in the mitochondria.

图片



Lane 1: Wild-type HAP1 whole cell lysate (40 µg)

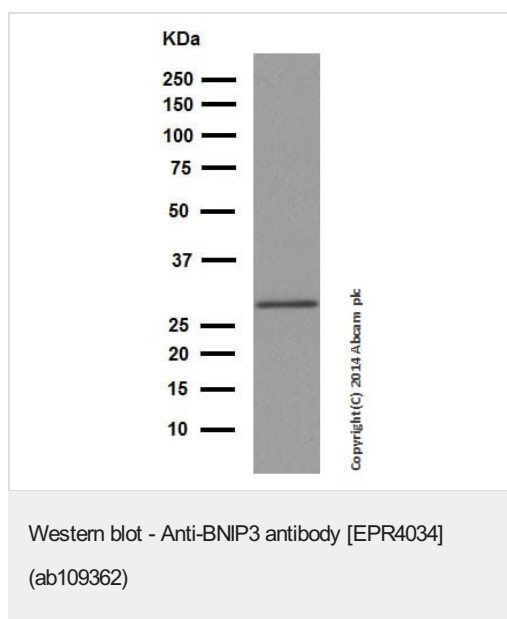
Lane 2: BNIP3 knockout HAP1 whole cell lysate (40 µg)

Lane 3: SHSY5Y whole cell lysate (40 µg)

Lane 4: A431 whole cell lysate (40 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab109362 observed at 25 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab109362 was shown to recognize BNIP3 in wild-type HAP1 cells as signal was lost at the expected MW in BNIP3 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and BNIP3 knockout samples were subjected to SDS-PAGE. ab109362 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Anti-BNIP3 antibody [EPR4034] (ab109362) at 1/1000 dilution (purified) + SH-SY5Y cell lysate at 20 µg

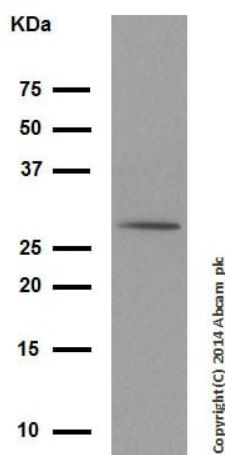
Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 22 kDa

Observed band size: 30 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-BNIP3 antibody [EPR4034]
(ab109362)

Anti-BNIP3 antibody [EPR4034] (ab109362) at 1/2000 dilution
(purified) + Jurkat cell lysate at 10 µg

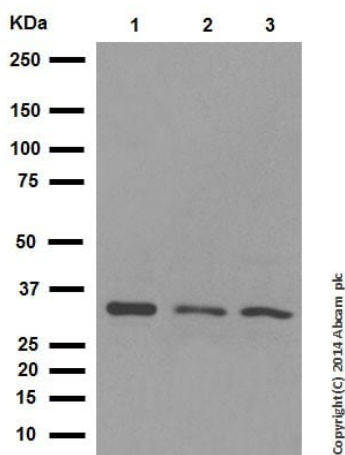
Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000
dilution

Predicted band size: 22 kDa

Observed band size: 30 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-BNIP3 antibody [EPR4034]
(ab109362)

All lanes : Anti-BNIP3 antibody [EPR4034] (ab109362) at 1/2000
dilution (purified)

Lane 1 : Rat kidney tissue lysate

Lane 2 : Mouse kidney tissue lysate

Lane 3 : Mouse spleen tissue lysate

Lysates/proteins at 20 µg per lane.

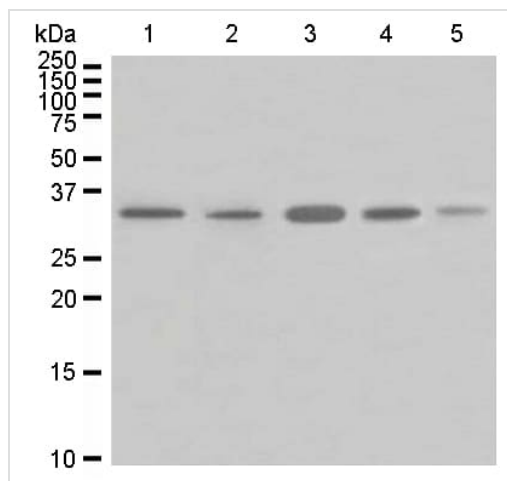
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at
1/1000 dilution

Predicted band size: 22 kDa

Observed band size: 30 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-BNIP3 antibody [EPR4034]
(ab109362)

All lanes : Anti-BNIP3 antibody [EPR4034] (ab109362) at 1/1000 dilution (unpurified)

Lane 1 : Jurkat cell lysate treated with etoposide

Lane 2 : Jurkat cell lysate

Lane 3 : SH-SY5Y cell lysate treated with camptothecin

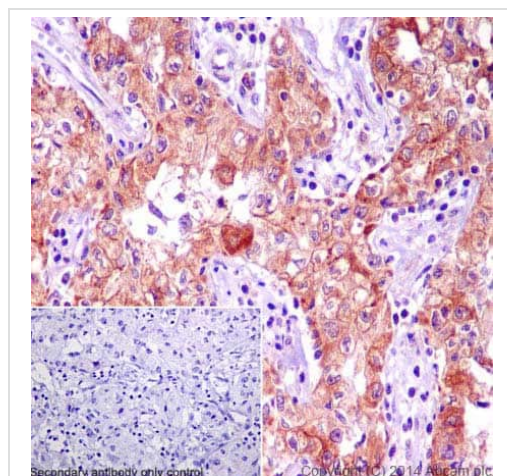
Lane 4 : SH-SY5Y cell lysate

Lane 5 : MCF-7 cell lysate treated with Cocl2

Lysates/proteins at 10 µg per lane.

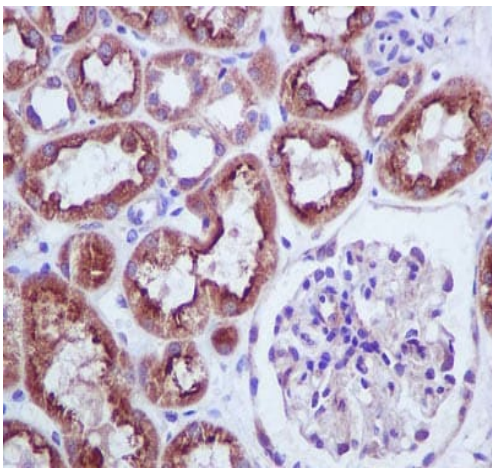
Predicted band size: 22 kDa

Observed band size: 30 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BNIP3 antibody
[EPR4034] (ab109362)

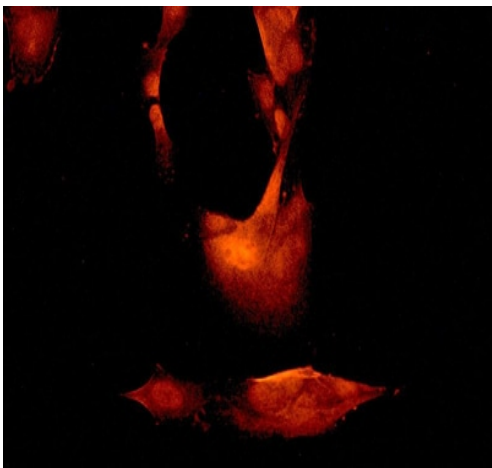
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human renal adenocarcinoma tissue labelling BNIP3 with purified ab109362 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BNIP3 antibody [EPR4034] (ab109362)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling BNIP3 with unpurified ab109362 at a 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-BNIP3 antibody [EPR4034] (ab109362)

Immunocytochemistry/Immunofluorescence analysis of SH-SY5Y cells labelling BNIP3 with unpurified ab109362 at a 1/100 dilution.

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-BNIP3 antibody [EPR4034] (ab109362)

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