

Anti-BNIP3 antibody [EPR4034] - BSA and Azide free ab219609

KO VALIDATED Recombinant RabMAB

[4 References](#) [5 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-BNIP3 antibody [EPR4034] - BSA and Azide free |
| Description | Rabbit monoclonal [EPR4034] to BNIP3 - BSA and Azide free |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, IHC-P, ICC/IF |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | 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. |
| General notes | <p>ab219609 is the carrier-free version of ab109362.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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</p> |

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

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|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| Storage buffer | pH: 7.20 Constituent: PBS |
| Carrier free | Yes |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR4034 |
| Isotype | IgG |

Applications

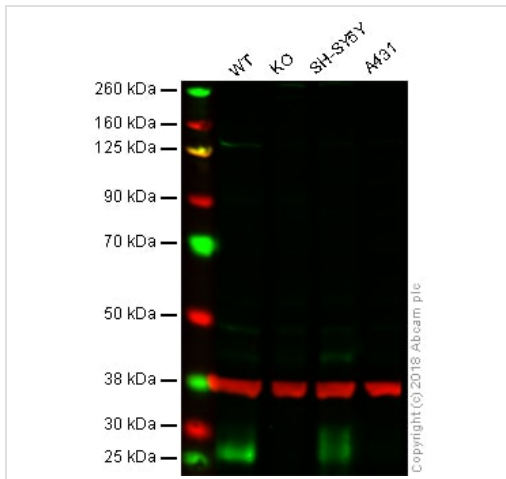
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab219609 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---------------|-----------|--|
| WB | | Use at an assay dependent concentration. Detects a band of approximately 30 kDa (predicted molecular weight: 22 kDa). |
| IHC-P | | Use at an assay dependent concentration. 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). ab199376 - Rabbit monoclonal IgG, is suitable for use as an |
| ICC/IF | | Use at an assay dependent concentration. |

Target

| | |
|------------------------------|--|
| Function | 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. |
| Sequence similarities | Belongs to the NIP3 family. |
| Cellular localization | Mitochondrion. Mitochondrion membrane. Coexpression with the EIB 19-kDa protein results in a shift in NIP3 localization pattern to the nuclear envelope. Colocalizes with ACAA2 in the mitochondria. |

Images



Western blot - Anti-BNIP3 antibody [EPR4034] - BSA and Azide free (ab219609)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109362](#)).

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

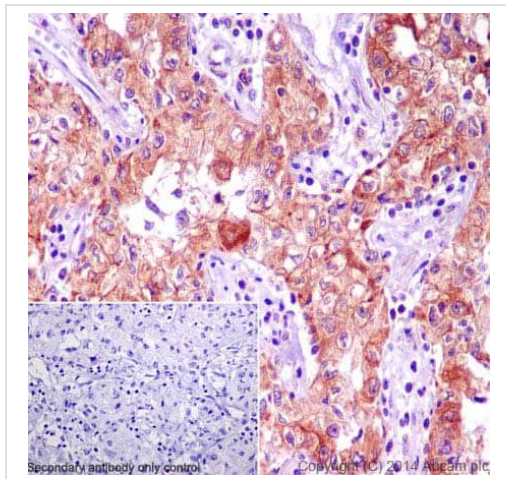
Lane 2: BNIP3 knockout HAP1 whole cell lysate (40 µg)

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.

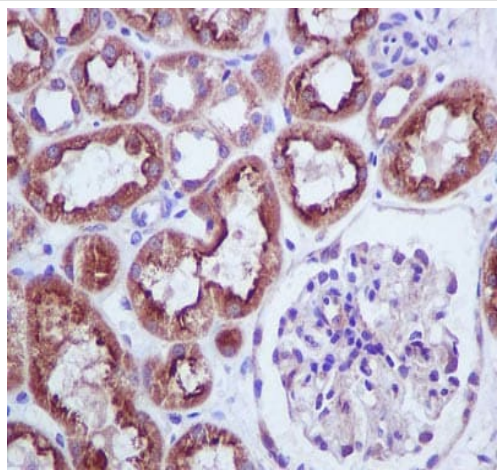
[ab109362](#) was shown to recognize BNIP3 in wild-type HAP1 cells as signal was lost at the expected MW in BNIP3 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and BNIP3 knockout samples were subjected to SDS-PAGE. [ab109362](#) and [ab9484](#) (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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BNIP3 antibody [EPR4034] - BSA and Azide free (ab219609)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109362](#)).

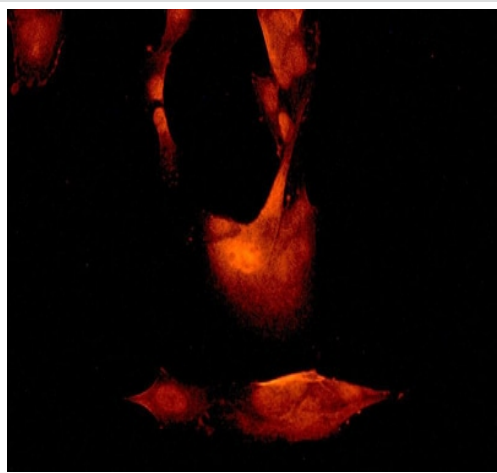


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BNIP3 antibody [EPR4034] - BSA and Azide free (ab219609)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109362](#)).

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







Immunocytochemistry/ Immunofluorescence - Anti-BNIP3 antibody [EPR4034] - BSA and Azide free (ab219609)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109362](#)).

Why choose a recombinant antibody?

| | |
|--|--|
|  <p>Research with confidence Consistent and reproducible results</p> |  <p>Long-term and scalable supply Recombinant technology</p> |
|  <p>Success from the first experiment Confirmed specificity</p> |  <p>Ethical standards compliant Animal-free production</p> |

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