




Anti-BNIP3L/NIX antibody ab8399

★★★★★ [3 Abreviews](#) [28 References](#) [3 Images](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-BNIP3L/NIX antibody |
| Description | Rabbit polyclonal to BNIP3L/NIX |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, ICC/IF, IHC-P |
| Species reactivity | Reacts with: Human Predicted to work with: Mouse, Rat  |
| Immunogen | Synthetic peptide corresponding to Human BNIP3L/NIX aa 77-92. Sequence: DAQHESGQSSSRGSSH Database link: O60238 (Peptide available as ab8431)  Run BLAST with  Run BLAST with |
| Positive control | K562 cell lysate can be used as positive control and the approximate 40kDa top band represents monomer of Bnip3L/NIX (4). |
| General notes | <p>Members in the Bcl-2 family are critical regulators of apoptosis by either inhibiting or promoting cell death. Bcl-2 homology 3 (BH3) domain is a potent death domain. BH3 domain containing pro-apoptotic proteins, including Bad, Bax, Bid, Bik, Hrk, Nip3, and Bim, form a growing subclass of the Bcl-2 family. A novel BH3 domain containing protein was recently identified and designated Bnip3L/NIX, Bnip3a, and Nix (for Nip3-like protein X) (Matsushima, M. et al.; Yasuda, M. et al.; Chen, G, et al.). Bnip3L/Bnip3a/Nix is a homolog of the E1B 19K/Bcl-2 binding and pro-apoptotic protein Bnip3. Over expression of Bnip3L/NIX induces apoptosis (Yasuda, M. et al.; Chen, G, et al.). Bnip3L/NIX interacts with and overcomes suppresses by Bcl-2 and Bcl-xL. Bnip3L/NIX is localized in mitochondria. The messenger RNA of Bnip3L/NIX is ubiquitously expressed in human tissues (Matsushima, M. et al.; Yasuda, M. et al.). Bnip3L/NIX and Bnip3 form a new subfamily of the pro-apoptotic mitochondrial proteins.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> |

Properties

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|-------------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C. |
| Storage buffer | pH: 7.2 Preservative: 0.02% Sodium azide |
| Purity | Affinity purified |
| Primary antibody notes | Members in the Bcl-2 family are critical regulators of apoptosis by either inhibiting or promoting cell death. Bcl-2 homology 3 (BH3) domain is a potent death domain. BH3 domain containing pro-apoptotic proteins, including Bad, Bax, Bid, Bik, Hrk, Nip3, and Bim, form a growing subclass of the Bcl-2 family. A novel BH3 domain containing protein was recently identified and designated Bnip3L, Bnip3a, and Nix (for Nip3-like protein X) (Matsushima, M. et al.; Yasuda, M. et al.; Chen, G, et al.). Bnip3L/Bnip3a/Nix is a homolog of the E1B 19K/Bcl-2 binding and pro-apoptotic protein Bnip3. Over expression of Bnip3L induces apoptosis (Yasuda, M. et al.; Chen, G, et al.). Bnip3L interacts with and overcomes suppression by Bcl-2 and Bcl-xL. Bnip3L is localized in mitochondria. The messenger RNA of Bnip3L is ubiquitously expressed in human tissues (Matsushima, M. et al.; Yasuda, M. et al.). Bnip3L and Bnip3 form a new subfamily of the pro-apoptotic mitochondrial proteins. |
| Clonality | Polyclonal |
| Isotype | IgG |
| Light chain type | unknown |

Applications

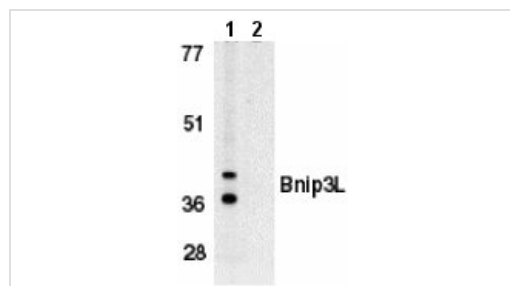
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab8399 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---------------|-----------|--|
| WB | | Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 40 kDa. To reduce possible background load less sample and or use more diluted antibody. |
| ICC/IF | ★★★★★ (1) | Use at an assay dependent concentration. See Abreview. |
| IHC-P | | Use a concentration of 2 µg/ml. |

Target

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|---|---|
| Function | Induces apoptosis. Interacts with viral and cellular anti-apoptosis proteins. Can overcome the suppressors BCL-2 and BCL-XL, although high levels of BCL-XL expression will inhibit apoptosis. May function as a tumor suppressor. Inhibits apoptosis induced by BNIP3. |
| Sequence similarities | Belongs to the NIP3 family. |
| Post-translational modifications | Undergoes progressive proteolysis to an 11 kDa C-terminal fragment, which is blocked by the proteasome inhibitor lactacystin. |

Images



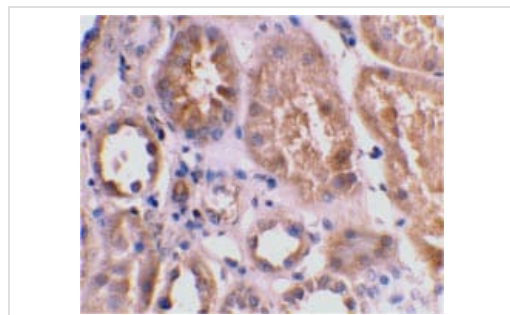
Western blot - Anti-BNIP3L/NIX antibody (ab8399)

All lanes : Anti-BNIP3L/NIX antibody (ab8399) at 1 µg/ml

Lane 1 : K562 whole cell lysate with absence of immunogenic peptide

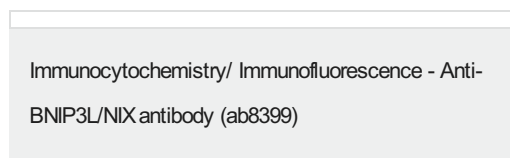
Lane 2 : K562 whole cell lysate with presence of immunogenic peptide

The approximate 40 kDa top band represents monomer of Bnip3L/NIX.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BNIP3L/NIX antibody (ab8399)

ab8399 at 2µg/ml staining BNIP3L/NIX in human kidney tissue by IHC



Immunocytochemistry/ Immunofluorescence - Anti-BNIP3L/NIX antibody (ab8399)

Immunofluorescence of Bnip3L/NIX in Human Kidney cells using ab8399 at 10 µg/ml.

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