

Bnip3L/Nix Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10168**Specification**

Bnip3L/Nix Antibody - Product Information

Application	WB, IHC
Primary Accession	O60238
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	23930

Bnip3L/Nix Antibody - Additional Information**Gene ID 665****Application & Usage**

The antibody can be used for Western blot analysis (0.5-2 µg/ml) and immunohistochemistry (2-10 µg/ml). The optimal conditions should be determined individually. Other applications have not been tested.

Other Names

BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like; NIP3-like protein X

Target/Specificity

Bnip3L/Nix

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-Bnip3L polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 1% BSA, 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Bnip3L/Nix Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Bnip3L/Nix Antibody - Protein Information

Name BNIP3L

Synonyms BNIP3A, BNIP3H, NIX

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. Inhibits apoptosis induced by BNIP3. Involved in mitochondrial quality control via its interaction with SPATA18/MIEAP: in response to mitochondrial damage, participates in mitochondrial protein catabolic process (also named MALM) leading to the degradation of damaged proteins inside mitochondria. The physical interaction of SPATA18/MIEAP, BNIP3 and BNIP3L/NIX at the mitochondrial outer membrane regulates the opening of a pore in the mitochondrial double membrane in order to mediate the translocation of lysosomal proteins from the cytoplasm to the mitochondrial matrix. May function as a tumor suppressor.

Cellular Location

Nucleus envelope. Endoplasmic reticulum. Mitochondrion outer membrane. Membrane; Single-pass membrane protein. Note=Colocalizes with SPATA18 at the mitochondrion outer membrane

Bnip3L/Nix Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Bnip3L/Nix Antibody - Images

Bnip3L/Nix Antibody - Background

Members of 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, Bnip3 α , and Nix (for Nip3-like protein X). Bnip3L/Bnip3 α /Nix is a homolog of the E1B 19K/Bcl-2 binding and pro-apoptotic protein Bnip3. Overexpression of Bnip3L induces apoptosis. Bnip3L interacts with and overcomes suppression by Bcl-2 and Bcl-xL. Bnip3L is localized in mitochondria. The message RNA of Bnip3L and Bnip3 form a new subfamily of the proapoptotic mitochondrial proteins.