



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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**Bnip3L (IN) (nix) (bcl 2 family). Rabbit Polyclonal Antibody**  
BNIP3A, BNIP3H, NIX

**BACKGROUND**

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, Bnip3 $\alpha$ , and Nix (for Nip3-like protein X) (1-3). Bnip3L/Bnip3 $\alpha$ /Nix is a homolog of the E1B 19K/Bcl-2 binding and pro-apoptotic protein Bnip3. Overexpression of Bnip3L induces apoptosis (2,3). Bnip3L interacts with and overcomes suppresses by Bcl-2 and Bcl-xL. Bnip3L is localized in mitochondria. The messenger RNA of Bnip3L is ubiquitously expressed in human tissues (1,2). Bnip3L and Bnip3 form a new subfamily of the pro-apoptotic mitochondrial proteins.

**ORDERING INFORMATION**

**CATALOG NUMBER**

X1120P

**SIZE**

100  $\mu$ g

**FORM**

Unconjugated

**HOST/CLONE**

Rabbit

**FORMULATION**

Provided in phosphate buffered saline solution containing 0.02% sodium azide as a preservative

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG

**APPLICATIONS**

Western Blot

**SPECIES REACTIVITY**

Human

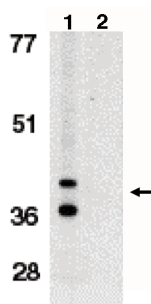
**ACCESSION NUMBER**

Human O60238

**IMMUNOGEN**

Synthetic peptide corresponding to amino acids 77 to 92 of the human Bnip3L protein. Immunogen sequence is identical in the mouse protein.

Western blot analysis using anti-Bnip3L (IN) antibody at 1  $\mu$ g/ml on K562 whole cell lysate in the absence (1) and presence (2) of immunogenic peptide.



**POSITIVE CONTROL/TISSUE EXPRESSION**

K562 cell lysate

**COMMENTS**

Detects Bnip3L by Western blot at 0.5 to 1  $\mu\text{g/ml}$ . Detects a 40 kDa band in K562 cell lysate which represents the monomer of Bnip3L. Optimal concentration should be evaluated by serial dilutions.

**PURIFICATION**

Antigen Immunoaffinity Purification

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at  $-20^{\circ}\text{C}$ . Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Matsushima, M., et al., Isolation, mapping, and functional analysis of a novel human cDNA (BNIP3L) encoding a protein homologous to human NIP3. *Genes Chromosomes Cancer* 1998, 21, 230-235
2. Yasuda, M., et al., BNIP3alpha: a human homolog of mitochondrial proapoptotic protein BNIP3. *Cancer Res.* 1999, 59, 533-537
3. Chen, G., et al., Nix and Nip3 form a subfamily of pro-apoptotic mitochondrial proteins. *J. Biol. Chem.* 1999, 274, 7-10
4. Imazu, T., et al., Bcl-2/E1B 19 kDa-interacting protein 3-like protein (Bnip3L) interacts with bcl-2/Bcl-xL and induces apoptosis by altering mitochondrial membrane permeability. *Oncogene.* 1999, 18, 4523-4529

**Product Specific References:**

1. Aerbajinai, W., et al. 'The proapoptotic factor Nix is coexpressed with Bcl-xL during terminal erythroid differentiation.' *Blood*, 2003, 102, 712-717.
2. Zhang, J., et al. 'Mitochondrial clearance is regulated by Atg7-dependent and -independent mechanisms during reticulocyte maturation.' *Blood*, 2009, 114, 157-164.

**PRODUCT SPECIFIC REFERENCES**