

**NIX Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11786c**

**Specification**

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**NIX Antibody (Center) - Product Information**

Application	FC, IF, IHC-P, WB,E
Primary Accession	<a href="#">O60238</a>
Other Accession	<a href="#">O9Z2F7</a> , <a href="#">Q3T013</a> , <a href="#">NP_004322.1</a>
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	23930
Antigen Region	52-81

**NIX Antibody (Center) - Additional Information**

**Gene ID** 665

**Other Names**

BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like, Adenovirus E1B19K-binding protein B5, BCL2/adenovirus E1B 19 kDa protein-interacting protein 3A, NIP3-like protein X, NIP3L, BNIP3L, BNIP3A, BNIP3H, NIX

**Target/Specificity**

This NIX antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 52-81 amino acids from the Central region of human NIX.

**Dilution**

FC~~1:10~50

IF~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NIX Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## NIX Antibody (Center) - 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

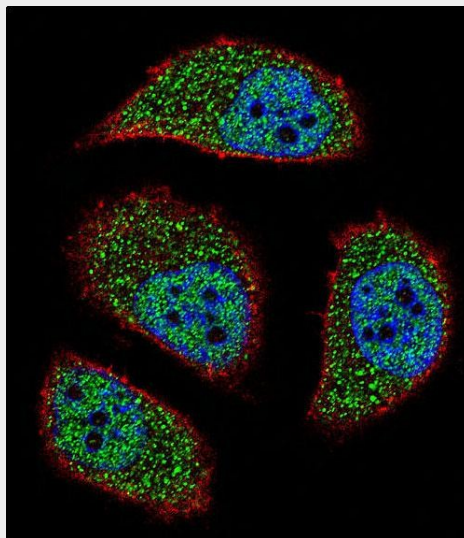
Nucleus envelope. Endoplasmic reticulum. Mitochondrion outer membrane. Membrane; Single-pass membrane protein. Note=Colocalizes with SPATA18 at the mitochondrion outer membrane

## NIX Antibody (Center) - Protocols

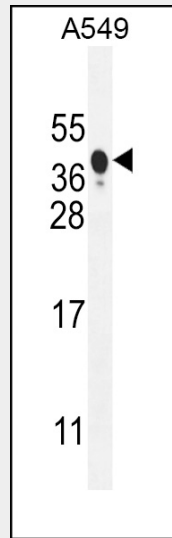
Provided below are standard protocols that you may find useful for product applications.

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

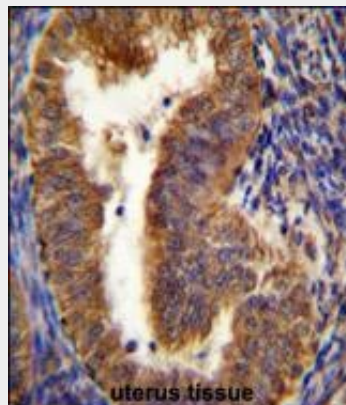
## NIX Antibody (Center) - Images



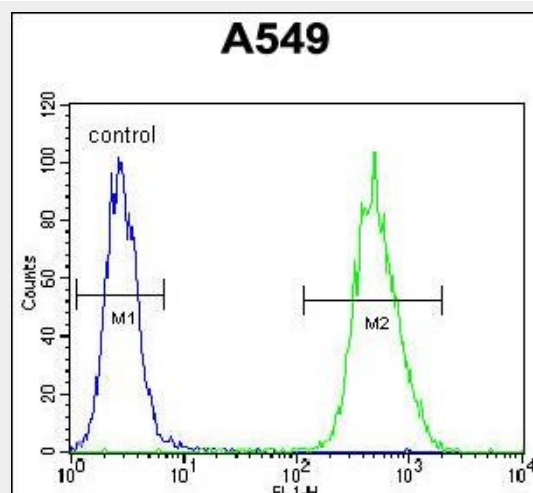
Confocal immunofluorescent analysis of NIX Antibody (Center)(Cat#AP11786c) with A549 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).



NIX Antibody (Center) (Cat. #AP11786c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the NIX antibody detected the NIX protein (arrow).



NIX Antibody (Center) (Cat. #AP11786c) immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of NIX Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



NIX Antibody (Center) (Cat. #AP11786c) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **NIX Antibody (Center) - Background**

This gene is a member of the BCL2/adenovirus E1B 19 kd-interacting protein (BNIP) family. It interacts with the E1B 19 kDa protein which is responsible for the protection of virally-induced cell death, as well as E1B 19 kDa-like sequences of BCL2, also an apoptotic protector. The protein encoded by this gene is a functional homolog of BNIP3, a proapoptotic protein. This protein may function simultaneously with BNIP3 and may play a role in tumor suppression.

### **NIX Antibody (Center) - References**

Novak, I., et al. EMBO Rep. 11(1):45-51(2010)  
Bellot, G., et al. Mol. Cell. Biol. 29(10):2570-2581(2009)  
Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008)  
Papandreou, I., et al. Cell Death Differ. 15(10):1572-1581(2008)  
Liu, W., et al. Neoplasia 10(8):897-907(2008)