10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NIX / BNIP3L Antibody (aa77-92)

Rabbit Polyclonal Antibody
Catalog # ALS11391

Specification

NIX / BNIP3L Antibody (aa77-92) - Product Information

Application	**IF**
Primary Accession	O60238
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**24kDa KDa**

NIX / BNIP3L Antibody (aa77-92) - 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
peptide (daqhesgqsssrgssh) corresponding to amino acids 77 to 92 of human origin, which are identical to those of mouse Bnip3L

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
NIX / BNIP3L Antibody (aa77-92) is for research use only and not for use in diagnostic or therapeutic procedures.

NIX / BNIP3L Antibody (aa77-92) - 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.

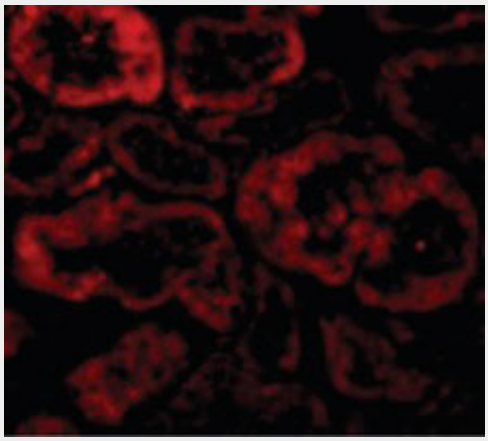
Cellular Location
Nucleus envelope. Endoplasmic reticulum. Mitochondrion outer membrane. Membrane; Single-pass membrane protein. Note=Colocalizes with SPATA18 at the mitochondrion outer membrane

NIX / BNIP3L Antibody (aa77-92) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NIX / BNIP3L Antibody (aa77-92) - Images



Immunofluorescence of Bnip3L in Human Kidney cells with Bnip3L antibody at 10 ug/ml.

NIX / BNIP3L Antibody (aa77-92) - Background

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 to 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.

NIX / BNIP3L Antibody (aa77-92) - References

Matsushima M.,et al.Genes Chromosomes Cancer 21:230-235(1998).
Yasuda M.,et al.Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases.

Chen G.,et al.J. Biol. Chem. 274:7-10(1999).
Ohi N.,et al.Cell Death Differ. 6:314-325(1999).
Aerbajinai W.,et al.Blood 102:712-717(2003).