

BNIP3 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP53287

Specification

BNIP3 Antibody - Product Information

Application WB
Primary Accession Q12983
Reactivity Human, Mouse
Host Rabbit
Clonality Polyclonal
Calculated MW 22 KDa
Antigen Region 137-186

BNIP3 Antibody - Additional Information

Gene ID 664

Other Names

BCL2/adenovirus E1B 19 kDa protein-interacting protein 3, BNIP3, NIP3

Dilution

WB~~ 1:1000

Format

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol

Storage

Store at -20 °C. Stable for 12 months from date of receipt

BNIP3 Antibody - Protein Information

Name BNIP3 (HGNC:1084)

Synonyms NIP3

Function

Apoptosis-inducing protein that can overcome BCL2 suppression. May play a role in repartitioning calcium between the two major intracellular calcium stores in association with BCL2. 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. Plays an important role in the calprotectin (S100A8/A9)-induced cell death pathway.



Tel: 858.875.1900 Fax: 858.875.1999

Cellular Location

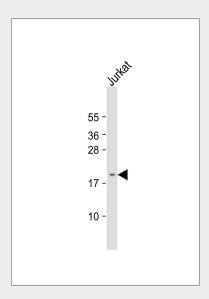
Mitochondrion. Mitochondrion outer membrane; Single-pass membrane protein. Note=Coexpression with the EIB 19-kDa protein results in a shift in NIP3 localization pattern to the nuclear envelope. Colocalizes with ACAA2 in the mitochondria. Colocalizes with SPATA18 at the mitochondrion outer membrane

BNIP3 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

BNIP3 Antibody - Images



Anti-BNIP3 Antibody at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 22 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

BNIP3 Antibody - Background

Apoptosis-inducing protein that can overcome BCL2 suppression. May play a role in repartitioning calcium between the two major intracellular calcium stores in association with BCL2. 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. Plays an important role in the calprotectin (S100A8/A9)-induced cell death pathway.





BNIP3 Antibody - References

Boyd J.M., et al.Cell 79:341-351(1994). Chen G., et al.J. Exp. Med. 186:1975-1983(1997). Deloukas P., et al.Nature 429:375-381(2004). Ohi N., et al.Cell Death Differ. 6:314-325(1999). Cao W., et al.Biochim. Biophys. Acta 1780:873-880(2008).