

**BNIP3 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP53287**

**Specification**

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**BNIP3 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O12983</a>
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.

### Cellular Location

Mitochondrion. Mitochondrion outer membrane; Single-pass membrane protein.

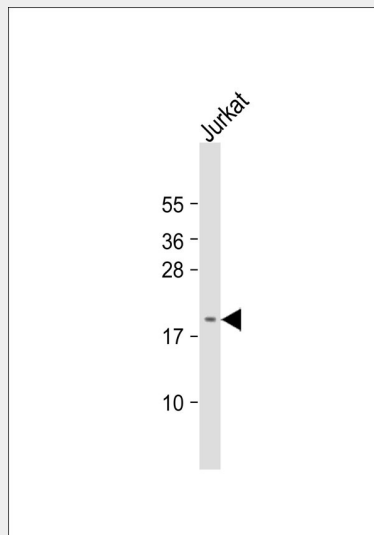
Note=Coexpression with the E1B 19-kDa protein results in a shift in NIP3 localization pattern to the nuclear envelope. Colocalizes with ACAA2 in the mitochondria. Colocalizes with SPATA18 at the mitochondrion outer membrane

### BNIP3 Antibody - Protocols

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

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

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**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).