

## Product datasheet for **TA336842**

### BNIP3 Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | FC, ICC/IF, IHC, WB   |
| Recommended Dilution: | Flow Cytometry: 2-5 ug/million cells/ml, Western Blot, Immunohistochemistry: 1:100, Immunocytochemistry/ Immunofluorescence: 1:100, Immunohistochemistry-Paraffin: 1:100  |
| Reactivity:           | Human, Mouse  |
| Host:                 | Rabbit  |
| Clonality:            | Polyclonal  |
| Immunogen:            | A synthetic peptide made to an internal region of the human BNIP3 protein (within residues 50-150). [Swiss-Prot Q12983]   |
| Formulation:          | PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.   |
| Concentration:        | lot specific  |
| Purification:         | Immunogen affinity purified   |
| Conjugation:          | Unconjugated  |
| Storage:              | Store at -20°C as received.   |
| Stability:            | Stable for 12 months from date of receipt.  |
| Gene Name:            | BCL2/adenovirus E1B 19kDa interacting protein 3   |
| Database Link:        | <a href="#">NP_004043</a><br><a href="#">Entrez Gene 12176 Mouse</a> <a href="#">Entrez Gene 664 Human</a><br><a href="#">Q12983</a>  |
| Background:           | BCL2/adenovirus E1B 19kD protein-interacting protein 3 (BNIP3) is a mitochondrial protein critical for apoptotic events in response to adenovirus infection. It has been implicated in causing a necrotic-like cell death pattern in cells, induced by CD47. This effect has been seen in many cancer cells, and its mis-regulation causes tumor cells to be impervious to normal autophagic events. The tumor suppressor p53 represses the expression of BNIP3, often as a consequence of hypoxic micro-environments as seen in tumors. When BNIP3 is correctly expressed and activated, it translocates to the mitochondria and instigates apoptosis. |
| Synonyms:             | NIP3  |

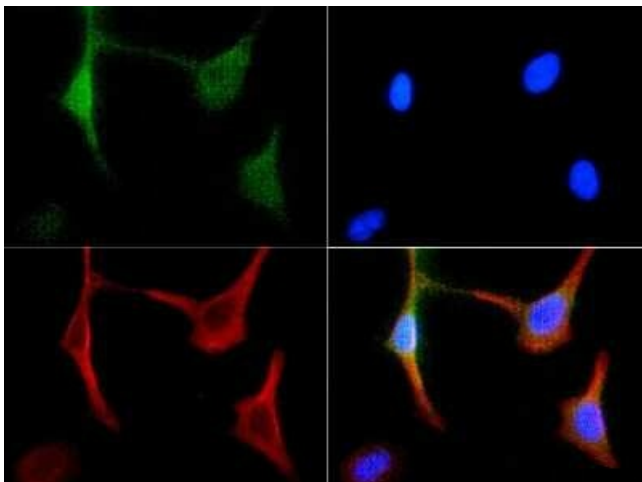


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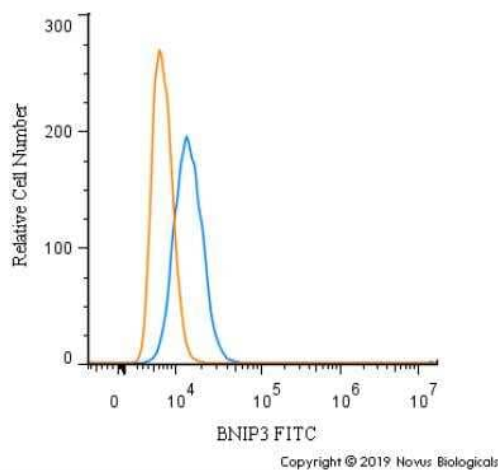
**Note:** This BNIP3 antibody is useful for ICC/IF and Immunohistochemistry-paraffin embedded sections. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

**Protein Families:** Druggable Genome, Transmembrane

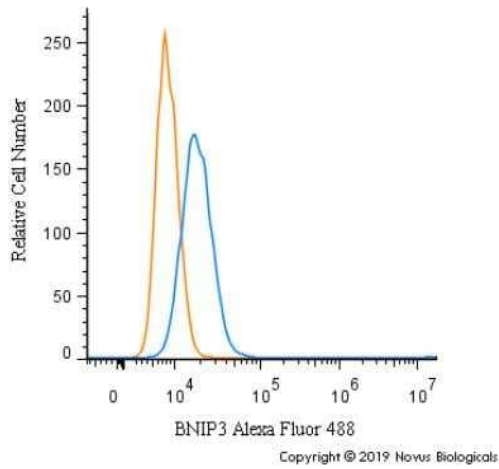
### Product images:



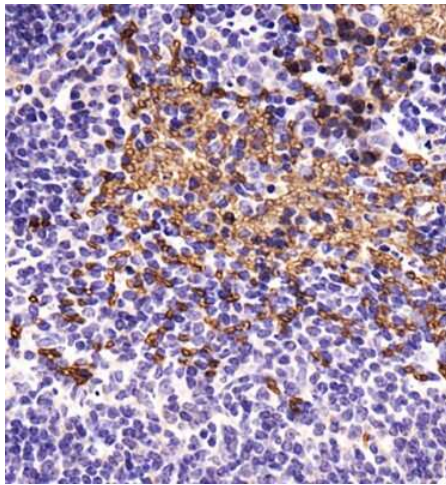
Immunocytochemistry/Immunofluorescence: BNIP3 Antibody TA336842 - BNIP3 antibody was tested in HeLa cells with FITC (green). Nuclei and actin were counterstained with Dapi (blue) and Phalloidin (red).



Flow Cytometry: BNIP3 Antibody TA336842 - An intracellular stain was performed on PC12 cells with BNIP3 Antibody TA336842F (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to FITC.



Flow Cytometry: BNIP3 Antibody TA336842 - An intracellular stain was performed on PC12 cells with BNIP3 Antibody TA336842AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



Immunohistochemistry: BNIP3 Antibody TA336842 - Analysis of BNIP3 in mouse kidney using DAB with hematoxylin counterstain.