

# Product Datasheet

## BNIP3 Antibody - BSA Free

### NBP1-77683

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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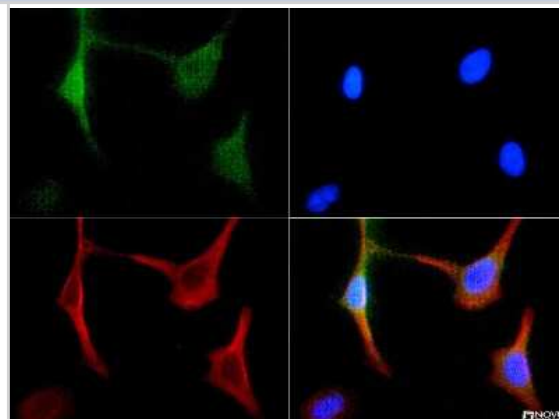
**NBP1-77683**

BNIP3 Antibody - BSA Free

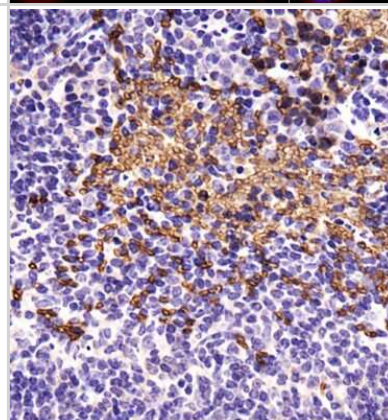
| Product Information         |  |
|-----------------------------|--|
| Unit Size                   | 0.1 ml   |
| Concentration               | 1.17 mg/ml   |
| Storage                     | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.   |
| Clonality                   | Polyclonal   |
| Preservative                | 0.05% Sodium Azide   |
| Isotype                     | IgG  |
| Purity                      | Immunogen affinity purified  |
| Buffer                      | PBS and 30% Glycerol   |
| Product Description         |  |
| Host                        | Rabbit   |
| Gene ID                     | 664  |
| Gene Symbol                 | BNIP3  |
| Species                     | Human, Mouse, Rat  |
| Immunogen                   | A synthetic peptide made to an internal region of the human BNIP3 protein (within residues 50-150). [Swiss-Prot Q12983]  |
| Product Application Details |  |
| Applications                | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin   |
| Recommended Dilutions       | Western Blot reported in scientific literature (PMID 19574421), Flow Cytometry 2-5 ug/million cells/ml, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:100 |
| Application Notes           | Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.  |

## Images

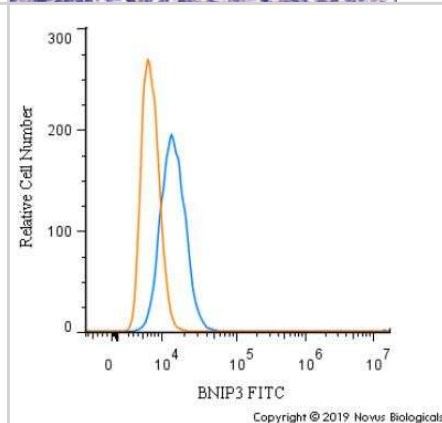
Immunocytochemistry/Immunofluorescence: BNIP3 Antibody [NBP1-77683] - BNIP3 antibody was tested in HeLa cells with FITC (green). Nuclei and actin were counterstained with Dapi (blue) and Phalloidin (red).



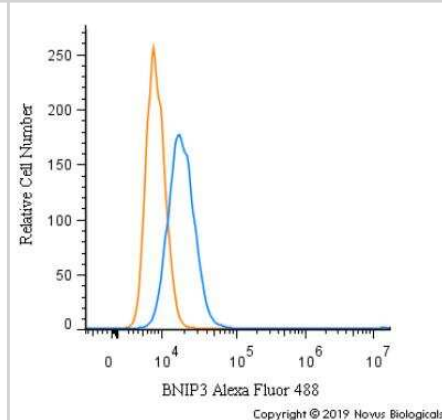
Immunohistochemistry: BNIP3 Antibody [NBP1-77683] - Analysis of BNIP3 in mouse kidney using DAB with hematoxylin counterstain.



Flow Cytometry: BNIP3 Antibody [NBP1-77683] - An intracellular stain was performed on PC12 cells with BNIP3 Antibody NBP1-77683F (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 [NBP1-77683] - An intracellular stain was performed on PC12 cells with BNIP3 Antibody NBP1-77683AF488 (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.



## Publications

Heng JS, Rattner A, Stein-O'Brien GL et al. Hypoxia tolerance in the Norrin-deficient retina and the chronically hypoxic brain studied at single-cell resolution. *Proc Natl Acad Sci U S A*. 2019-04-30 [PMID: 30988181] (ICC/IF, Mouse)

Yang YS, Yang MC, Guo Y et al. PLAGL2 expression-induced lung epithelium damages at bronchiolar alveolar duct junction in emphysema: bNip3- and SP-C-associated cell death/injury activity. *Am J Physiol Lung Cell Mol Physiol*. 2009-09-01 [PMID: 19574421] (IHC-P, WB, Human, Mouse)



## Procedures

### Immunohistochemistry-Paraffin Embedded Sections procedure specific for BNIP3 antibody (NBP1-77683) IHC-P

BNIP3 Antibody:

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

\*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.

### Immunocytochemistry/Immunofluorescence protocol for BNIP3 Antibody (NBP1-77683)

BNIP3 Antibody:

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

\*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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### **Products Related to NBP1-77683**

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|             |   |
|-------------|---|
| HAF008      | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160      | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891  | Rabbit IgG Isotype Control                          |
| NBP1-77683F | BNIP3 Antibody [FITC]                               |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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