

# Product Datasheet

## BNIP3L Antibody - BSA Free

### NBP1-88558

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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**NBP1-88558**

BNIP3L Antibody - BSA Free

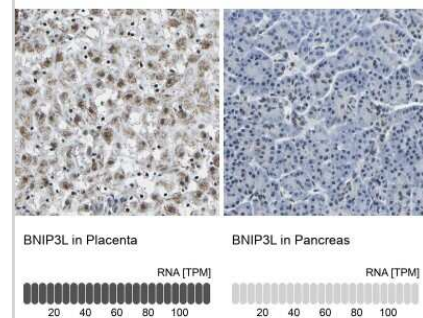
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	665
Gene Symbol	BNIP3L
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in the scientific literature (PMID: 24573672).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SNGNDNGNGKNGGLEHVPSSSSIHNGDMEKILLDAQHESGQSSSRGSSSHCDS PSPQEDGQIMFDVEMHTSRDHSSQSEEEVVEGEKEVEALKKSADWVSDWSS RPENIPPKEFHFRHPKRSVLSMRKSGAMK

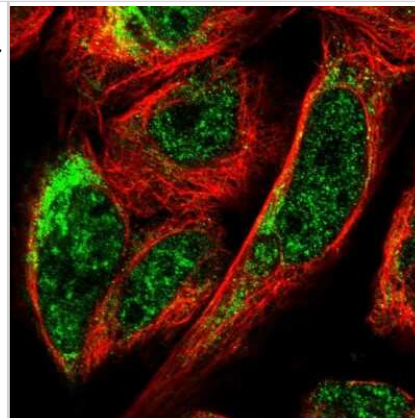
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

**Images**

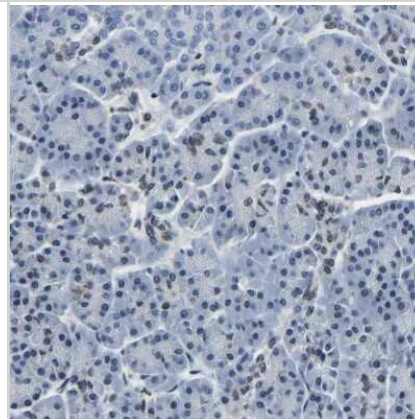
Immunohistochemistry-Paraffin: BNIP3L Antibody [NBP1-88558] - Staining in human placenta and pancreas tissues using anti-BNIP3L antibody. Corresponding BNIP3L RNA-seq data are presented for the same tissues.



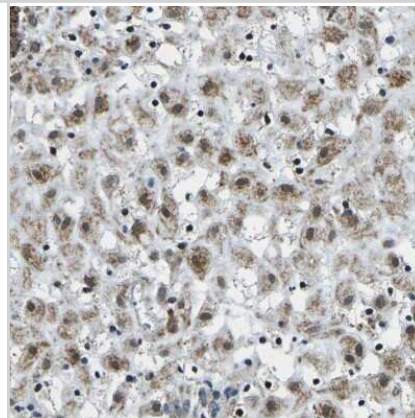
Immunocytochemistry/Immunofluorescence: BNIP3L Antibody [NBP1-88558] - Staining of human cell line U-2 OS shows localization to nuclear speckles & mitochondria. Antibody staining is shown in green.



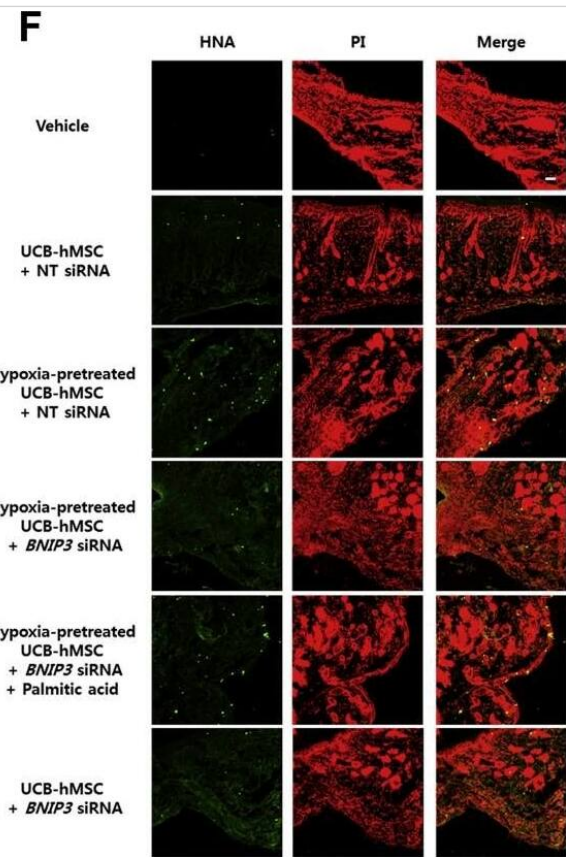
Immunohistochemistry-Paraffin: BNIP3L Antibody [NBP1-88558] - Staining of human pancreas shows low expression as expected.



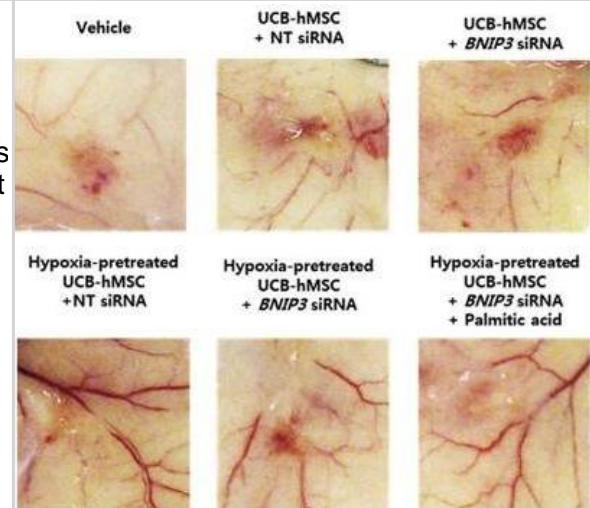
Immunohistochemistry-Paraffin: BNIP3L Antibody [NBP1-88558] - Staining of human placenta shows high expression.



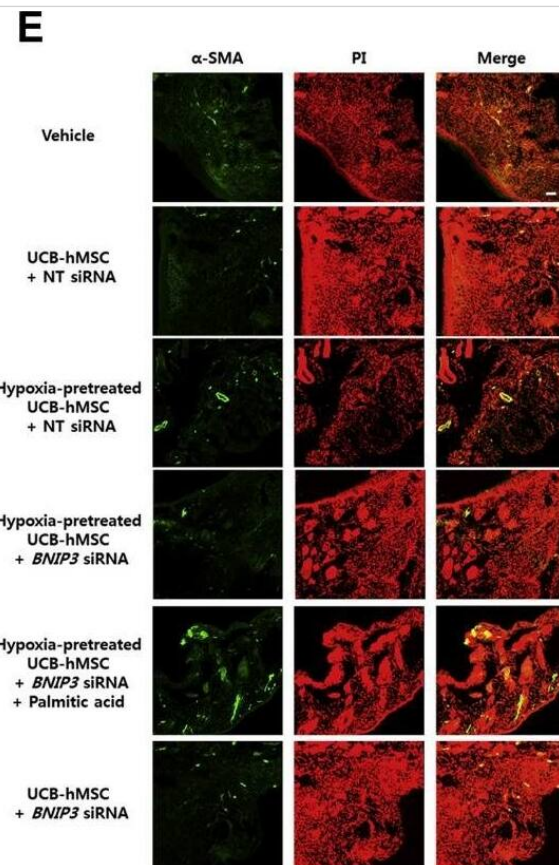
Immunocytochemistry/ Immunofluorescence: BNIP3L Antibody [NBP1-88558] - The role of PA in BNIP3 silenced UCB-hMSC survival in the mouse skin wound healing model. (A) Mouse skin wound surgery with UCB-hMSC transplantation was performed as described in Section 2. Representative gross wound images were acquired at post injection days 0, 4, 8, 12. Skin wound sizes at day 8 were compared with wound size at day 0.  $n = 5$ . (B) Tissue slide samples were stained with hematoxylin & eosin. Low & high magnified histological gross images are shown in the left & right panels, respectively. Scale bars, 260  $\mu\text{m}$  (magnification,  $\times 40$ ) & 100  $\mu\text{m}$  (magnification,  $\times 100$ ).  $n = 5$ . (C) Representative images of blood vessels in skin wounds on day 12 (top panel). Vessel density was analyzed by using ImageJ program (bottom panel).  $n = 5$ . (D-F) Histological tissue samples were immuno-stained with CD31,  $\alpha$ -SMA, & HNA-specific antibodies & PI for counterstaining.  $\alpha$ -SMA & HNA-positive cells were visualized by confocal microscopy. The number of CD31 &  $\alpha$ -SMA-positive cells in high power field (HPF), & the percentage of HNA-positive cells in total cells were analyzed by using Metamorph software. Scale bars, 100  $\mu\text{m}$  (magnification,  $\times 100$ ).  $n = 5$ . Data are presented as a mean  $\pm$  S.E.M.  $\$p < 0.05$  versus vehicle group,  $*p < 0.05$  versus UCB-hMSC group given NT siRNA,  $\#p < 0.05$  versus UCB-hMSC group given NT siRNA with hypoxia pretreatment,  $@p < 0.05$  versus UCB-hMSC group given BNIP3 siRNA with hypoxia pretreatment. Image collected & cropped by CiteAb from the following publication (<https://linkinghub.elsevier.com/retrieve/pii/S2213231717303804>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



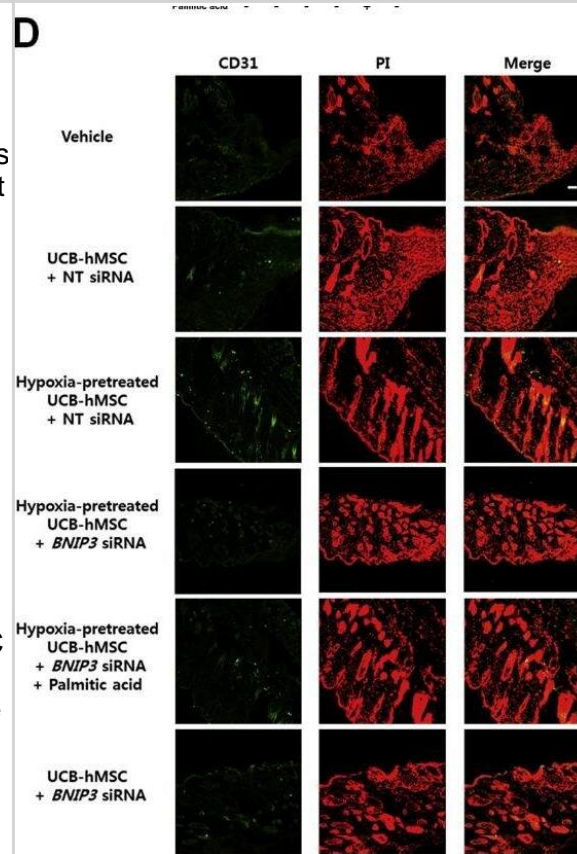
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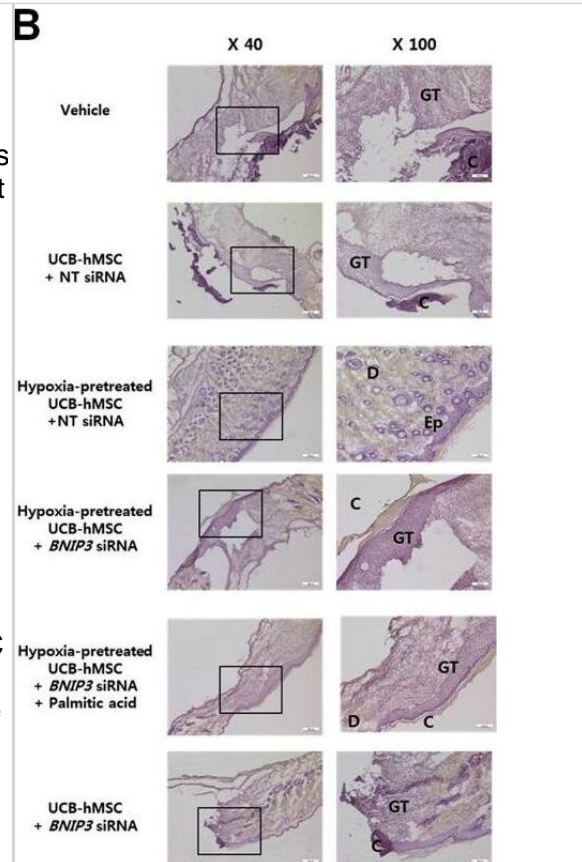
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## Publications

Kim MJ, Choi GE, Chae CW et al. Melatonin-mediated FKBP4 downregulation protects against stress-induced neuronal mitochondria dysfunctions by blocking nuclear translocation of GR Cell death & disease 2023-02-21 [PMID: 36810730] (WB, Human)

Choi GE, Lee HJ, Chae CW, et al. BNIP3L/NIX-mediated mitophagy protects against glucocorticoid-induced synapse defects Nature communications 2021-01-20 [PMID: 33473105] (WB, Mouse)

Lee H, Jung Y, Choi G et al. BNIP3 induction by hypoxia stimulates FASN-dependent free fatty acid production enhancing therapeutic potential of umbilical cord blood-derived human mesenchymal stem cells Redox Biol 2017-07-04 [PMID: 28704726] (WB, Human)

Li W, Zhang X, Zhuang H et al. MicroRNA-137 Is a Novel Hypoxia-responsive MicroRNA That Inhibits Mitophagy via Regulation of Two Mitophagy Receptors FUNDC1 and NIX. J Biol Chem 2014-04-11 [PMID: 24573672] (ICC/IF, Mouse)

Stadler C, Rexhepaj E, Singan VR et al. Immunofluorescence and fluorescent-protein tagging show high correlation for protein localization in mammalian cells. Nat Methods 2013-04-01 [PMID: 23435261]



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Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-88558**

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NBP1-88558PEP	BNIP3L Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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