Datasheet for ABIN6137620

anti-BNIP3 antibody (AA 1-164)

4 Images | 2 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	BNIP3
Binding Specificity:	AA 1-164
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BNIP3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-164 of human BNIP3 (NP_004043.3).
Sequence:	MGDAAADPPG PALPCEFLRP GCGAPLSPGA QLGRGAPTSA FPPPAAEAHP AARRGLRSPQ LPSGAMSQNG APGMQEESLQ GSWVELHFSN NGNGGSVPAS VSIYNGDMEK ILLDAQHESG RSSSKSSHCD SPPRSQTPQD TNRASETDTH SIGEKNSSQS EEDD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

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Target Details

Target:	BNIP3
Alternative Name:	BNIP3 (BNIP3 Products)
Background:	This gene is encodes a mitochondrial protein that contains a BH3 domain and acts as a pro-apoptotic factor. The encoded protein interacts with anti-apoptotic proteins, including the E1B 19 kDa protein and Bcl2. This gene is silenced in tumors by DNA methylation.,BNIP3,NIP3,Cancer,Cell Biology & Developmental Biology,Apoptosis,Autophagy,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,Cardiovascular,Hypoxia,Heart,Mitochondrial Control of Autophagy,BNIP3
Molecular Weight:	27 kDa
Gene ID:	664
UniProt:	Q12983
Pathways:	Autophagy, Brown Fat Cell Differentiation

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

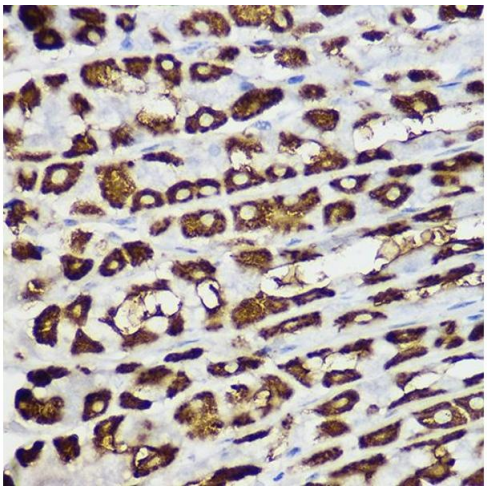
Product cited in:	Wan, Sun, Wu, Yu, Wang, Lin, Li, Wu, Sun: "Chi3l3: a potential key orchestrator of eosinophil recruitment in meningitis induced by Angiostrongylus cantonensis." in: **Journal of**

Publications

neuroinflammation, Vol. 15, Issue 1, pp. 31, (2018) (PubMed).

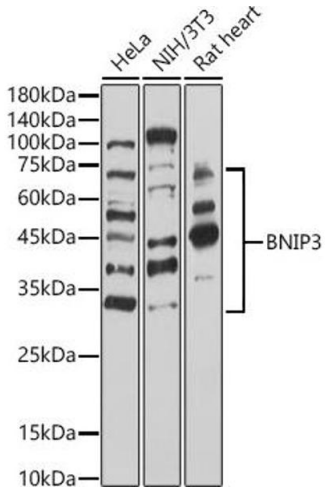
Jiang, He, Zhu, Liang, Wang, Lu, Ren, Yi, Xiao, Wang: "Endoplasmic reticulum stress-dependent ROS production mediates synovial myofibroblastic differentiation in the immobilization-induced rat knee joint contracture model." in: **Experimental cell research**, Vol. 369, Issue 2, pp. 325-334, (2018) (PubMed).

Images



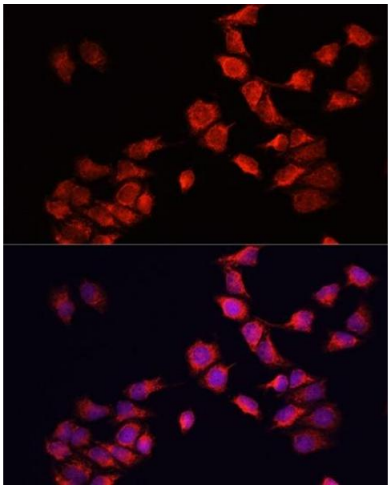
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse stomach using BNIP3 Rabbit pAb (ABIN6127502, ABIN6137620, ABIN6137621 and ABIN6221337) at dilution of 1:150 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using BNIP3 antibody (ABIN6127502, ABIN6137620, ABIN6137621 and ABIN6221337) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 10s.



Immunofluorescence

Image 3. Immunofluorescence analysis of HeLa cells using BNIP3 antibody (ABIN6127502, ABIN6137620, ABIN6137621 and ABIN6221337) at dilution of 1:100. Blue: DAPI for nuclear staining.

Please check the product details page for more images. Overall 4 images are available for ABIN6137620.

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