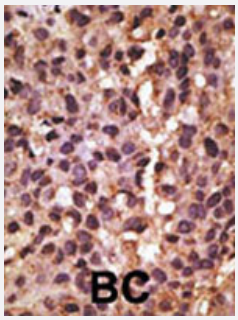
BNIP3 polyclonal antibody

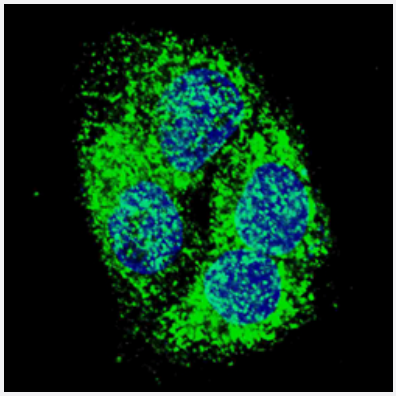
Catalog # PAB1863 Size 400 uL

Applications



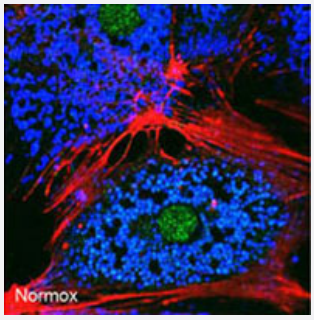
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast cancer tissue reacted with BNIP3 polyclonal antibody (Cat # PAB1863) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunofluorescence

Fluorescent confocal image of HepG2 cells stained with BNIP3 (BH3 Domain Specific) antibody. HepG2 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with BNIP3 polyclonal antibody (Cat # PAB1863) (1:500, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/mL, 5 min). BNIP3 immunoreactivity is localized to the cytoplasm of HepG2 cells.



Immunofluorescence

Freshly isolated mouse hepatocytes plated on coverslips (2 X10^5 cells / 22-mm glass coverslip) were cultured under normoxic conditions for 6 hr. The cells were then fixed in 2% paraformaldehyde in PBS for 1 hr, and processed for confocal immunofluorescence (red: F-actin, blue: ATP-synthase, green: BNIP3). Fluorescence labeling of BNIP3 accomplished with BNIP3 polyclonal antibody (Cat # PAB1863). Data courtesy of Ruben Zamora, University of Pittsburgh.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of BNIP3 (BH3 Domain Specific).
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 215-252 of human BNIP3.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	BH3 Domain Specific.
Form	Liquid
Preparation Method	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis a gainst PBS.
Recommend Usage	ELISA Immunofluorescence (1:50-100) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide).
Storage Instruction	Store at 4°C for up to 2 weeks. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — BNIP3

Entrez GeneID	664
Protein Accession#	Q12983
Gene Name	BNIP3
Gene Alias	NIP3
Gene Description	BCL2/adenovirus E1B 19kDa interacting protein 3
Omim ID	603293
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the BCL2/adenovirus E1B 19 kd-interacting protein (BNIP) family. It interacts with the E1B 19 kDa protein which is responsible for the protection of virally-induced cell death, as well as E1B 19 kDa-like sequences of BCL2, also an apoptotic protector. This gene contains a BH3 domain and a transmembrane domain, which have been associated with pro-apoptotic function. The dimeric mitochondrial protein encoded by this gene is known to induce apoptosis, even in the presence of BCL2. [provided by RefSeq
Other Designations	BCL2/adenovirus E1B 19kD-interacting protein 3|OTTHUMP00000020752

Publication Reference

- Expression and subcellular localization of BNIP3 in hypoxic hepatocytes and liver stress.

  Metukuri MR, Beer-Stolz D, Namas RA, Dhupar R, Torres A, Loughran PA, Jefferson BS, Tsung A, Billiar TR, Vodovotz Y, Zamora R.

  American Journal of Physiology. Gastrointestinal and Liver Physiology 2009 Jan; 296(3):G499.