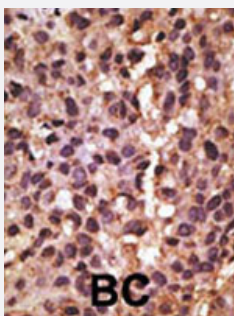


BNIP3 polyclonal antibody

Catalog # PAB1863

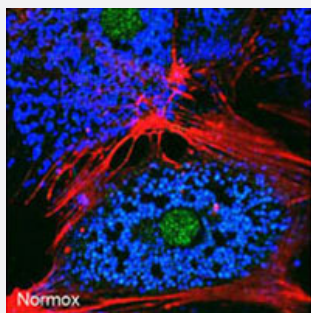
Size 400 uL

Applications



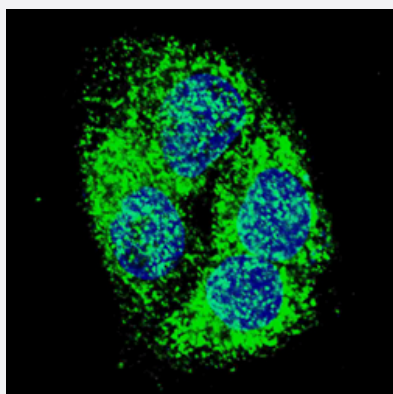
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

Freshly isolated mouse hepatocytes plated on coverslips (2 X10⁵ 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.



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.

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 against 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 should be handled by trained staff only.

Applications

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

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- Immunofluorescence

Freshly isolated mouse hepatocytes plated on coverslips (2×10^5 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.

- Immunofluorescence

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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.