

Rabbit anti-Human, mouse BNIP3 Polyclonal Antibody | anti-BNIP3 antibody

BNIP3 Antibody (BH3 Domain Specific)

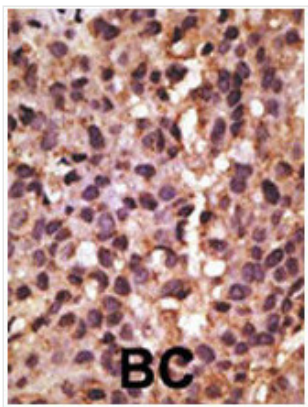
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284875	Rabbit	Human, mouse	Immunohistochemistry, Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

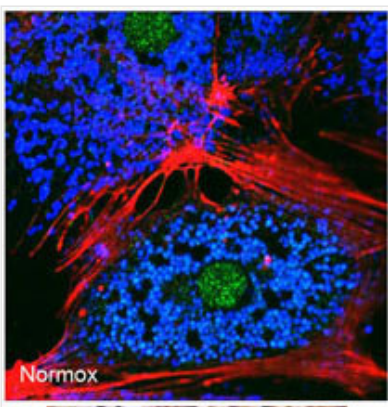
BNIP3; Polyclonal Antibody; BNIP3 Antibody (BH3 Domain Specific); BCL2/adenovirus E1B 19 kDa protein-interacting protein 3; NIP3; anti-BNIP3 antibody

PRODUCT SPECIFICATIONS

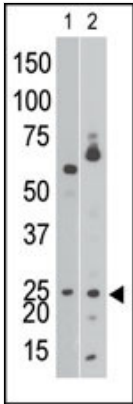
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This BNIP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 152-187 amino acids from human BNIP3.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	152-187
Sequence Length	194
Applicable Applications for anti-BNIP3 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



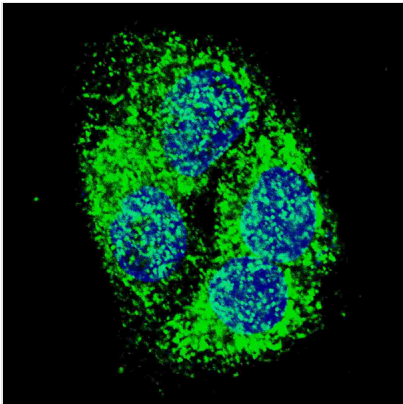
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



IF (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 anti-BNIP3 antibody. Data courtesy of Ruben Zamora, University of Pittsburgh.



WB (Western Blot)
The anti-NIP3 BH3 domain Pab is used in Western blot to detect NIP3 BH3 in Ramos cell lysate (lane 1) and in mouse brain tissue lysate (lane 2).



IF (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 AAA284875 BNIP3 (BH3 Domain Specific) primary antibody (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.

ADDITIONAL INFORMATION

Related Product Information for anti-BNIP3 antibody	NIP3 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. NIP3 contains a BH3 domain and a transmembrane domain, which have been associated with pro-apoptotic function. The dimeric mitochondrial protein is known to induce apoptosis, even in the presence of BCL2.
Product Categories/Family for anti-BNIP3 antibody	Cancer; Cardiovascular; Cell Biology; Metabolism; Neuroscience; Autophagy

References	References for protein: 1.Kothari, S., et al., Oncogene 22(30):4734-4744 (2003). 2.Lee, S.M., et al., Life Sci. 71(19):2267-2277 (2002). 3.Ray, R., et al., J. Biol. Chem. 275(2):1439-1448 (2000). 4.Chen, G., et al., J. Biol. Chem. 274(1):7-10 (1999). 5.Yasuda, M., et al., J. Biol. Chem. 273(20):12415-12421 (1998). References for HepG2 cell line: 1. Knowles BB, et al. (1980). Human hepatocellular carcinoma cell lines secrete the major plasma proteins and hepatitis B surface antigen. Science 209: 497-499.[PubMed: 6248960]. 2. Darlington GJ, et al. (1987). Growth and hepatospecific gene expression of human hepatoma cells in a defined medium. In Vitro Cell. Dev. Biol. 23: 349-354.[PubMed: 3034851]. 3. Ihrke, G; Neufeld, EB; Meads, T; Shanks, MR; Cassio, D; Laurent, M; Schroer, TA; Pagano, RE et al. (1993). "WIF-B cells: an in vitro model for studies of hepatocyte polarity". Journal of Cell Biology 123 (6): 1761-1775. [PubMed:7506266]. 4. Mersch-Sundermann, V.; Knasmüller, S.; Wu, X. J.; Darroudi, F.; Kassie, F. (2004). "Use of a human-derived liver cell line for the detection of cytoprotective, antigenotoxic and cogenotoxic agents". Toxicology 198 (1-3): 329-340. [PubMed:15138059].
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7669481
NCBI GeneID	664
NCBI Accession #	NP_004043.2
NCBI GenBank Nucleotide #	NM_004052.2
UniProt Accession #	Q12983 ; O14620 ; Q96GP0
Molecular Weight	21541
NCBI Official Full Name	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3
NCBI Official Synonym Full Names	BCL2/adenovirus E1B 19kDa interacting protein 3
NCBI Official Symbol	BNIP3
NCBI Official Synonym Symbols	NIP3
NCBI Protein Information	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3
UniProt Protein Name	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3
UniProt Gene Name	BNIP3
UniProt Synonym Gene Names	NIP3
UniProt Entry Name	BNIP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bnip3-antibody-immunohistochemistry-western-blot-immunofluorescence-elisa/284875>