BNIP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BNIP2, Polyclonal Antibody
Full Product Name	BNIP2, CT (BNIP2, NIP2, BCL2/adenovirus E1B 19kD protein-interacting protein 2) (MaxLight 405)
Product Gene Name	anti-BNIP2 antibody
Product Synonym Names	BNIP2; NIP2; BCL2/adenovirus E1B 19kD protein-interacting protein 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	36,018 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (59955061..59981642, complement). Location: 15q22.2
OMIM	603292
3D Structure	ModBase 3D Structure for Q12982
Immunogen	BNIP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 405-435 amino acids from the C-terminal region of human BNIP2.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-BNIP2 antibody	Antibodies; Infectious Disease Adenovirus
Applications Tested/Suitable for anti-BNIP2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-BNIP2 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-BNIP2 antibody	This gene is a member of the BCL2/adenovirus E1B 19 kd-interacting protein (BNIP) family. Though the specific function is unknown, 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.
Product References and Citations for anti-BNIP2 antibody	Scott, G.B., et al. Biochem. J. 431(3):423-431(2010). Shimada, M., et al. Hum. Genet. 128(4):433-441(2010). Valencia, C.A., et al. Biochem. Biophys. Res. Commun. 364(3):495-501(2007). Zhou, Y.T., et al. Exp. Cell Res. 303(2):263-274(2005). Shang, X., et al. J. Biol. Chem. 278(46):45903-45914(2003).

Other Notes	Small volumes of anti-BNIP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BNIP2 purchase	MBS6278708 is an antibody targeting BNIP2. Also known as BNIP2, CT (BNIP2, NIP2, BCL2/adenovirus E1B 19kD protein-interacting protein 2) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BNIP2. It may not necessarily be applicable to this product.

NCBI GI #	168480080
NCBI GeneID	663
NCBI Accession #	NP_004321.2
UniProt Primary Accession #	Q12982
UniProt Secondary Accession #	B4DS94
UniProt Related Accession #	Q12982
GenBank Nucleotide #	NM_004330.2
NCBI Official Full Name	BCL2/adenovirus E1B 19 kDa protein-interacting protein 2
NCBI Official Synonym Full Names	BCL2/adenovirus E1B 19kDa interacting protein 2
NCBI Official Symbol	BNIP2
NCBI Official Synonym Symbols	NIP2; BNIP-2
UniProt Protein Name	BCL2/adenovirus E1B 19 kDa protein-interacting protein 2
Protein Family	BCL2/adenovirus E1B 19 kDa protein-interacting protein
UniProt Gene Name	BNIP2
UniProt Synonym Gene Names	NIP2
UniProt Entry Name	BNIP2_HUMAN
NCBI Protein Information	BCL2/adenovirus E1B 19 kDa protein-interacting protein 2
NCBI Summary for BNIP2	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 protects cells from virally-induced cell death. The encoded protein also interacts with E1B 19 kDa-like sequences of BCL2, another apoptotic protector. [provided by RefSeq, Mar 2011]
UniProt Comments for BNIP2	BNIP2: Implicated in the suppression of cell death. Interacts with the BCL-2 and adenovirus E1B 19 kDa proteins. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 15q22.2 Cellular Component: intracellular membrane-bound organelle; perinuclear region of cytoplasm; cytoplasm; nuclear envelope; cytosol Molecular Function: identical protein binding; protein binding; calcium ion binding; GTPase activator activity Biological Process: muscle cell differentiation; apoptosis; positive regulation of muscle cell differentiation; positive regulation of GTPase activity; negative regulation of apoptosis
Research Articles on BNIP2	**1.** Data imply that SIRT1 may mediate MPP(+)-induced cytotoxicity, possibly through the regulation of BNIP2.

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