BNIP2 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	BNIP2, Blocking Peptide
Full Product Name	BNIP2 Blocking Peptide
Product Gene Name	BNIP2 blocking peptide
Product Synonym Names	NIP2; BCL2/adenovirus E1B 19 kDa protein-interacting protein 2
Host	Synthetic
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	BNIP2 peptide (MBS823479) is used for blocking the activity of BNIP2 antibody (MBS821929)
Molecular Weight	43,135 Da
OMIM	603292
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for BNIP2 blocking peptide	Blocking (BL)
Application Notes for BNIP2 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for BNIP2 blocking peptide	MBS823479 is a blocking peptide targeting BNIP2. Reactive in Human, Mouse, Rat. Host: Synthetic. The peptide is used to block Anti-BNIP2 Antibody reactivity.
Other Notes	Small volumes of BNIP2 blocking peptide 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.

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; negative regulation of apoptosis; positive regulation of GTPase activity
Research Articles on BNIP2	**1.** Data imply that SIRT1 may mediate MPP(+)-induced cytotoxicity, possibly through the regulation of BNIP2.
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