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BNIP1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19321a

Product Information

Application	WB, E
Primary Accession	Q12981
Other Accession	NP_001196.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40208
Calculated MW	26132
Antigen Region	26-55

Additional Information

Gene ID	662
Other Names	Vesicle transport protein SEC20, BCL2/adenovirus E1B 19 kDa protein-interacting protein 1, Transformation-related gene 8 protein, TRG-8, BNIP1, NIP1, SEC20L
Target/Specificity	This BNIP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 26-55 amino acids from the N-terminal region of human BNIP1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BNIP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BNIP1
Synonyms	NIP1, SEC20L

Function	As part of a SNARE complex may be involved in endoplasmic reticulum membranes fusion and be required for the maintenance of endoplasmic reticulum organization (PubMed:15272311). Also plays a role in apoptosis (PubMed:15272311, PubMed:23896122, PubMed:7954800). It is for instance required for endoplasmic reticulum stress-induced apoptosis (PubMed:23896122). As a substrate of RNF185 interacting with SQSTM1, might also be involved in mitochondrial autophagy (Probable).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type IV membrane protein. Mitochondrion membrane; Single-pass type IV membrane protein. Note=Localization to the mitochondrion is regulated by RNF186.
Tissue Location	Isoform 1 is highly expressed in heart, brain, liver skeletal muscle and pancreas. Isoform 3 is moderately expressed in placenta, lung and kidney. Isoform 4 is highly expressed in testis and small intestine.

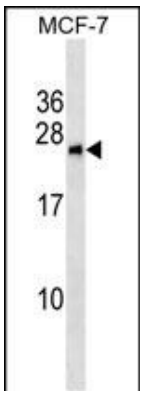
Background

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. Alternative splicing of this gene results in four protein products with identical N- and C-termini.

References

Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Nakajima, K., et al. EMBO J. 23(16):3216-3226(2004)
Zhang, H., et al. FEBS Lett. 448(1):23-27(1999)
Kataoka, N., et al. Nucleic Acids Res. 23(18):3638-3641(1995)

Images



BNIP1 Antibody (N-term)(Cat. #AP19321a) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the BNIP1 antibody detected the BNIP1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.