

**NIP1 Antibody (BH3 Domain Specific) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP1315a****Specification**

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**NIP1 Antibody (BH3 Domain Specific) Blocking peptide - Product Information**Primary Accession [Q12981](#)**NIP1 Antibody (BH3 Domain Specific) Blocking peptide - 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**

The synthetic peptide sequence used to generate the antibody [AP1315a](/product/products/AP1315a) was selected from the region of human NIP1 BH3 Domain. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NIP1 Antibody (BH3 Domain Specific) Blocking peptide - 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](http://www.uniprot.org/citations/15272311)). Also plays a role in apoptosis (PubMed: [7954800](http://www.uniprot.org/citations/7954800), PubMed: [15272311](http://www.uniprot.org/citations/15272311), PubMed: [23896122](http://www.uniprot.org/citations/23896122)). It is for instance required for endoplasmic reticulum stress-induced apoptosis (PubMed: [23896122](http://www.uniprot.org/citations/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.

**NIP1 Antibody (BH3 Domain Specific) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**NIP1 Antibody (BH3 Domain Specific) Blocking peptide - Images****NIP1 Antibody (BH3 Domain Specific) Blocking peptide - 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 products of unknown function. Transcript variant BNIP1 contains the entire coding region of the gene. This variant contains a fully conserved BH3 domain, which has been associated with pro-apoptotic function.

**NIP1 Antibody (BH3 Domain Specific) Blocking peptide - References**

Zhang, H., et al., FEBS Lett. 448(1):23-27 (1999). Boyd, J.M., et al., Cell 79(2):341-351 (1994).