

**Goat Anti-BNIP1 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1162a

## Specification

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### Goat Anti-BNIP1 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">Q12981</a>
Other Accession	<a href="#">NP_053583</a> , <a href="#">662</a> , <a href="#">224630 (mouse)</a> , <a href="#">140932 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	26132

### Goat Anti-BNIP1 Antibody - 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

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat Anti-BNIP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-BNIP1 Antibody - 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:<a href="http://www.uniprot.org/citations/15272311" target="\_blank">15272311</a>). Also plays a

role in apoptosis (PubMed:<a href="http://www.uniprot.org/citations/15272311" target="\_blank">15272311</a>, PubMed:<a href="http://www.uniprot.org/citations/23896122" target="\_blank">23896122</a>, PubMed:<a href="http://www.uniprot.org/citations/7954800" target="\_blank">7954800</a>). It is for instance required for endoplasmic reticulum stress-induced apoptosis (PubMed:<a href="http://www.uniprot.org/citations/23896122" target="\_blank">23896122</a>). 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.

### Goat Anti-BNIP1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Goat Anti-BNIP1 Antibody - Images



AF1162a (0.5 µg/ml) staining of Human Kidney lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-BNIP1 Antibody - 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.

#### **Goat Anti-BNIP1 Antibody - References**

Polymorphisms in mitochondrial genes and prostate cancer risk. Wang L, et al. *Cancer Epidemiol Biomarkers Prev*, 2008 Dec. PMID 19064571.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. *Genome Res*, 2004 Oct. PMID 15489334.

Involvement of BNIP1 in apoptosis and endoplasmic reticulum membrane fusion. Nakajima K, et al. *EMBO J*, 2004 Aug 18. PMID 15272311.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. *Proc Natl Acad Sci U S A*, 2002 Dec 24. PMID 12477932.

Novel BNIP1 variants and their interaction with BCL2 family members. Zhang H, et al. *FEBS Lett*, 1999 Apr 1. PMID 10217402.