

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

Specification

Goat Anti-BNIP1 Antibody - Product Information

| | |
|-------------------|---|
| Application | WB |
| Primary Accession | Q12981 |
| Other Accession | NP_053583 , 662 , 224630 (mouse) , 140932 (rat) |
| 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: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.

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.