10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BNIP1 Rabbit pAb

Catalog # AP99609

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q12981
Other Accession	Q12981
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26132
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human BNIP1/TRG8
Epitope Specificity	51-150/228
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SEC20 family.
SUBUNIT	Component of a SNARE complex consisting of STX18, USE1L, BNIP1/SEC20L and SEC22B. Interacts directly with STX18, RINT1/TIP20L and NAPA. Interacts with ZW10 through RINT1. Interacts with BCL2 and adenovirus E1B 19 kDa protein.
Post-translational modifications	'Lys-63'-linked polyubiquitination by RNF185 allows recruiting of autophagy receptor SQSTM1, which simultaneously binds both ubiquitin and LC3 to link ubiquitination and autophagy.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SNARE that may be involved in targeting and fusion of Golgi-derived retrograde transport vesicles with the ER. Required for maintenance of ER network. Implicated in the suppression of cell death. Tissue specificity: 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.

Additional Information

Gene ID	662
Other Names	NIP1; SEC20; SEDH; TRG-8; 2010005M06Rik; 5930429G21Rik; Bnip1l1; SEC20_HUMAN; BNIP1; BCL2/adenovirus E1B 19 kDa protein-interacting protein 1; Transformation-related gene 8 protein (TRG-8); SEC20L; SEC20_MOUSE; SEC20_RAT; BCL2 interacting protein 1; BCL2/adenovirus E1B 19kDa interacting protein 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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