

ARG58336 anti-BNIP3 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes BNIP3
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	BNIP3
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-140 of Human BNIP3 (NP_004043.3).
Conjugation	Un-conjugated
Alternate Names	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3; NIP3

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	A375	
Observed Size	~ 60 kDa	

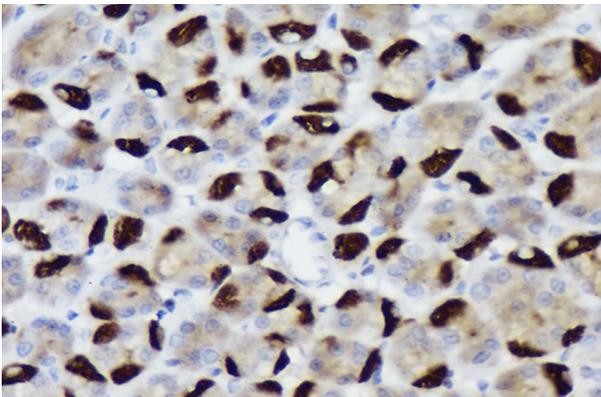
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

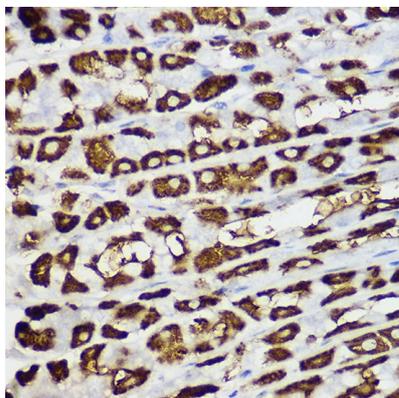
Gene Symbol	BNIP3
Gene Full Name	BCL2/adenovirus E1B 19kDa interacting protein 3
Background	This gene encodes a mitochondrial protein that contains a BH3 domain and acts as a pro-apoptotic factor. The encoded protein interacts with anti-apoptotic proteins, including the E1B 19 kDa protein and Bcl2. This gene is silenced in tumors by DNA methylation. [provided by RefSeq, Dec 2014]
Function	Apoptosis-inducing protein that can overcome BCL2 suppression. May play a role in repartitioning calcium between the two major intracellular calcium stores in association with BCL2. Involved in mitochondrial quality control via its interaction with SPATA18/MIEAP: in response to mitochondrial damage, participates to mitochondrial protein catabolic process (also named MALM) leading to the degradation of damaged proteins inside mitochondria. The physical interaction of SPATA18/MIEAP, BNIP3 and BNIP3L/NIX at the mitochondrial outer membrane regulates the opening of a pore in the mitochondrial double membrane in order to mediate the translocation of lysosomal proteins from the cytoplasm to the mitochondrial matrix. Plays an important role in the calprotectin (S100A8/A9)-induced cell death pathway. [UniProt]
Highlight	Related products: BNIP3 antibodies ; Anti-Rabbit IgG secondary antibodies ; Related news: Hypoxia-induced transcription, histone demethylases are involved
Calculated Mw	28 kDa
Cellular Localization	Mitochondrion, Mitochondrion outer membrane, Single-pass membrane protein. [UniProt]

Images



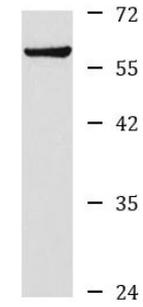
ARG58336 anti-BNIP3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat stomach stained with ARG58336 anti-BNIP3 antibody at 1:100 dilution.



ARG58336 anti-BNIP3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse stomach stained with ARG58336 anti-BNIP3 antibody at 1:100 dilution.



A375

ARG58336 anti-BNIP3 antibody WB image

Western blot: 25 μ g of A375 cell lysate stained with ARG58336 anti-BNIP3 antibody at 1:1000 dilution.

The \sim 60 kDa signal might be a homodimer form of BNIP3.