

## 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.

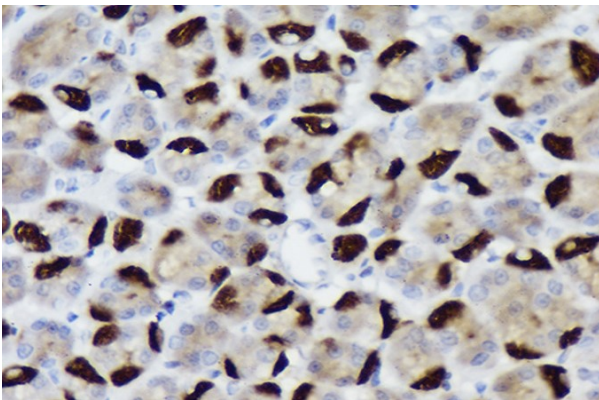
## Bioinformation

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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: <a href="#">BNIP3 antibodies</a> ; <a href="#">Anti-Rabbit IgG secondary antibodies</a> ; Related news: <a href="#">Hypoxia-induced transcription, histone demethylases are involved</a>
Calculated Mw	28 kDa
Cellular Localization	Mitochondrion, Mitochondrion outer membrane, Single-pass membrane protein. [UniProt]

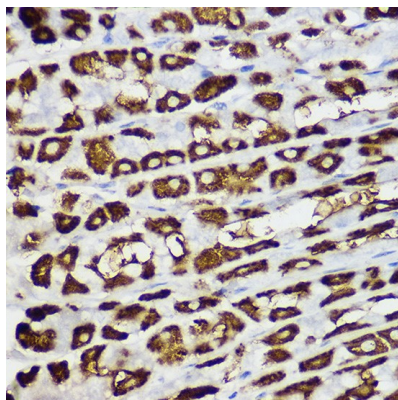
## Images

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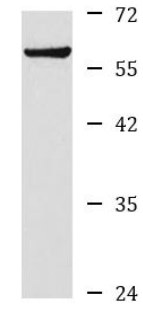
ARG58336 anti-BNIP3 antibody IHC-P image

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 µg of A375 cell lysate stained with ARG58336 anti-BNIP3 antibody at 1:1000 dilution.

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