

Anti-BNIP3 Rabbit Monoclonal Antibody
Catalog # ABO13770**Specification****Anti-BNIP3 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC
Primary Accession	Q12983
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-BNIP3 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

Anti-BNIP3 Rabbit Monoclonal Antibody - Additional Information

Gene ID 664

Other Names

BCL2/adenovirus E1B 19 kDa protein-interacting protein 3, BNIP3 ([HGNC:1084](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1084)), NIP3

Calculated MW

21541 MW KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200

Subcellular Localization

Mitochondrion. Mitochondrion outer membrane; Single-pass membrane protein. Coexpression with the E1B 19- kDa protein results in a shift in NIP3 localization pattern to the nuclear envelope. Colocalizes with ACAA2 in the mitochondria. Colocalizes with SPATA18 at the mitochondrion outer membrane.

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human BNIP3

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for

up to one month. Avoid repeated freeze-thaw cycles.

Anti-BNIP3 Rabbit Monoclonal Antibody - Protein Information

Name BNIP3 ([HGNC:1084](#))

Synonyms NIP3

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 in 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.

Cellular Location

Mitochondrion. Mitochondrion outer membrane; Single-pass membrane protein.

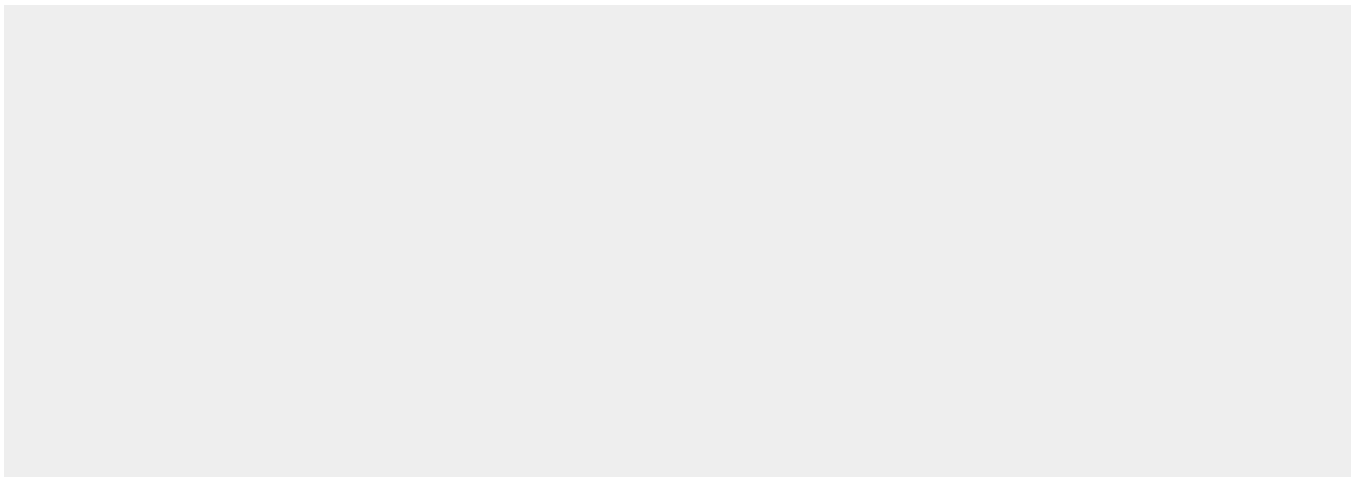
Note=Coexpression with the E1B 19-kDa protein results in a shift in NIP3 localization pattern to the nuclear envelope. Colocalizes with ACAA2 in the mitochondria. Colocalizes with SPATA18 at the mitochondrion outer membrane

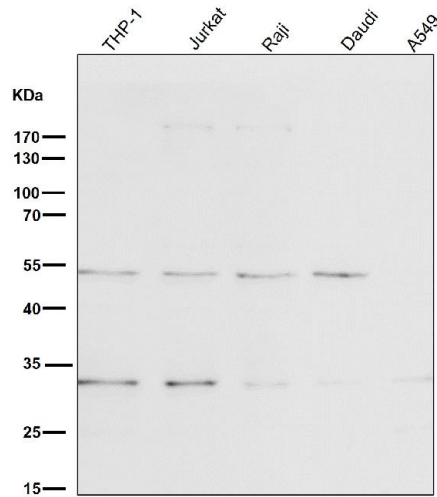
Anti-BNIP3 Rabbit Monoclonal Antibody - Protocols

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

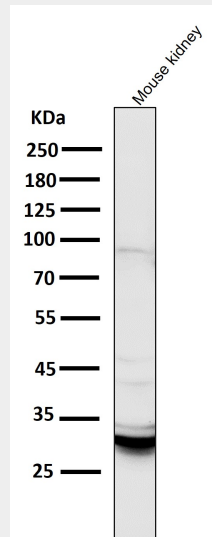
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-BNIP3 Rabbit Monoclonal Antibody - Images

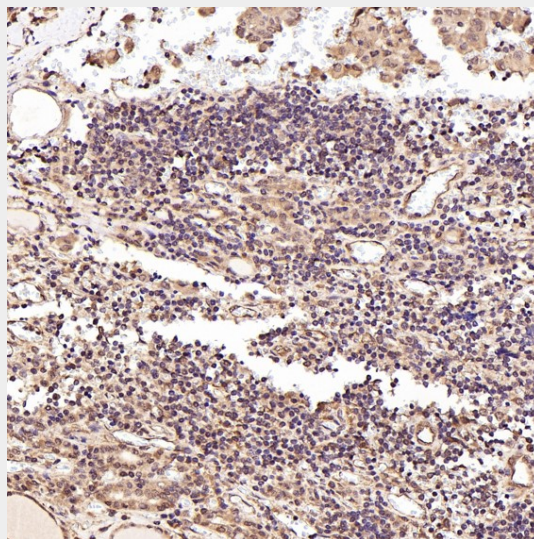




All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.

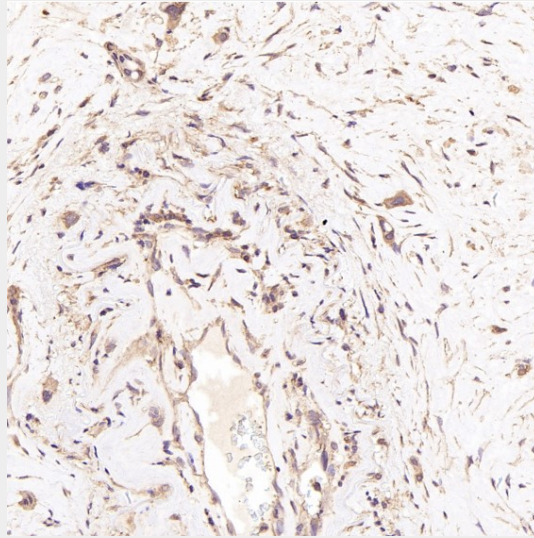


All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.

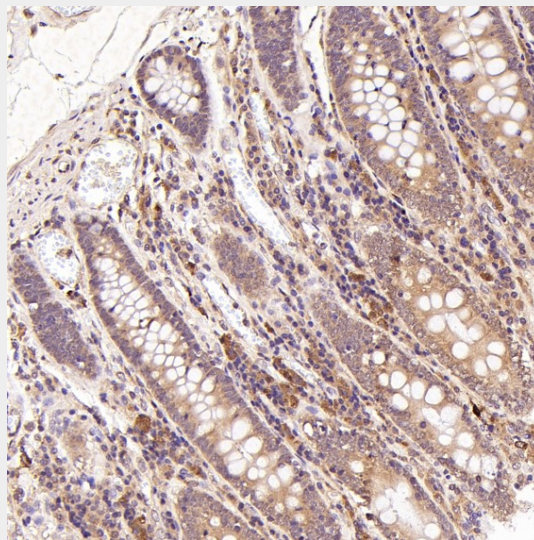


Immunohistochemical analysis of paraffin-embedded Human thyroid cancer, using the Antibody

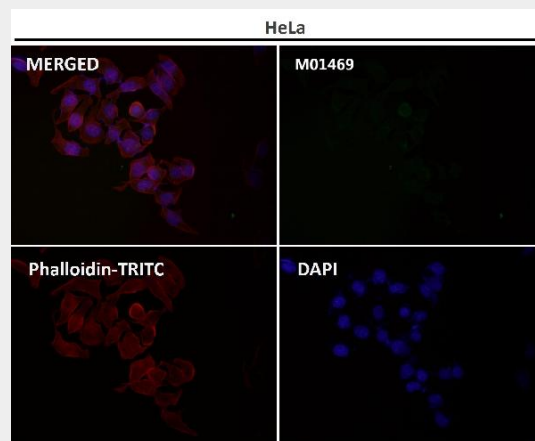
at 1:100 dilution.



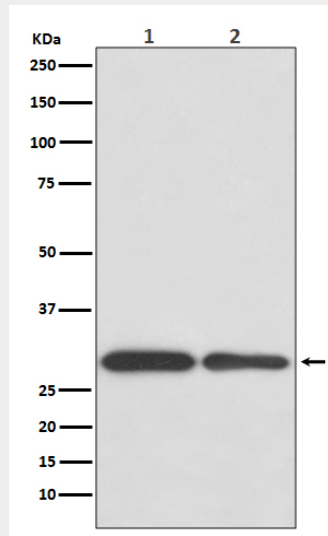
Immunohistochemical analysis of paraffin-embedded Human pancreatic cancer, using the Antibody at 1:100 dilution.



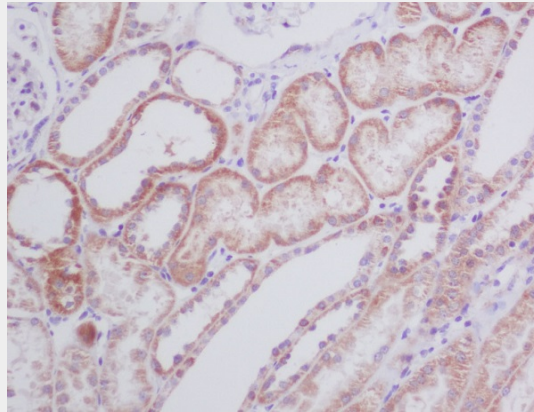
Immunohistochemical analysis of paraffin-embedded Human placenta, using the Antibody at 1:100 dilution.



Immunofluorescent analysis using the Antibody at 1:500 dilution.



Western blot analysis of BNIP3 expression in (1) Jurkat cell lysate; (2) Mouse spleen lysate.



Immunohistochemical analysis of paraffin-embedded human kidney, using BNIP3 Antibody.