

**KD-Validated Anti-BNIP3 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI2099****Specification****KD-Validated Anti-BNIP3 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	<a href="#">Q12983</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 22 kDa, observed, 24 kDa kDa
Gene Name	BNIP3
Aliases	BNIP3; BCL2 Interacting Protein 3; HABON; Nip3; BCL2/Adenovirus E1B 19 kDa Protein-Interacting Protein 3; Hypoxia-Activated BNIP3 Overlapping Non-Coding RNA; BCL2/Adenovirus E1B 19kDa Interacting Protein 3; Nineteen KD Interacting Protein-3; BCL2/Adenovirus E1B Interacting Protein 3; NIP3
Immunogen	A synthesized peptide derived from human BNIP3

**KD-Validated Anti-BNIP3 Rabbit Monoclonal Antibody - Additional Information**

Gene ID	664
<b>Other Names</b>	
BCL2/adenovirus E1B 19 kDa protein-interacting protein 3, BNIP3 ( <a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1084">http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1084</a> target="_blank">HGNC:1084</a>), NIP3	

**KD-Validated 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.

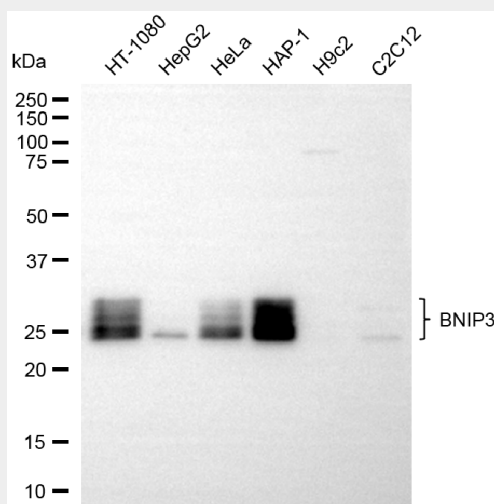
Note=Coexpression with the EIB 19-kDa protein results in a shift in NIP3 localization pattern to the nuclear envelope. Colocalizes with ACAA2 in the mitochondria. Colocalizes with SPATA18 at the mitochondrion outer membrane

### KD-Validated Anti-BNIP3 Rabbit Monoclonal Antibody - Protocols

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

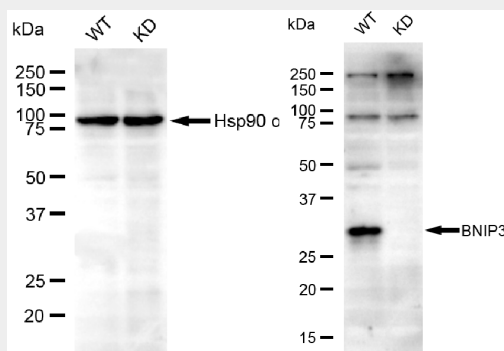
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KD-Validated Anti-BNIP3 Rabbit Monoclonal Antibody - Images



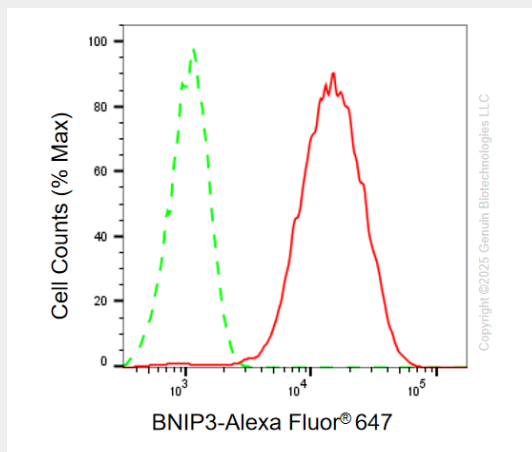
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Western blotting analysis using anti-BNIP3 antibody (Cat#AGI2099). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-BNIP3 antibody (Cat#AGI2099, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Western blotting analysis using anti-BNIP3 antibody (Cat# AGI2099). BNIP3 expression in wild-type (WT) and BNIP3 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-BNIP3 antibody (Cat# AGI2099, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat# 201, 1:20,000) respectively.



Flow cytometric analysis of BNIP3 expression in HepG2 cells using anti-BNIP3 antibody (Cat#AGI2099, 1:1,000). Green, isotype control; red, BNIP3.