

KD-Validated Anti-BNIP3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2099

Product Information

Application	WB, FC
Primary Accession	Q12983
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB13585
Calculated MW	21541
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

Additional Information

Gene ID	664
Other Names	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3, BNIP3 (HGNC:1084), NIP3

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

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