

BNIP3 Rabbit mAb

Catalog # AP74986

Product Information

ApplicationWB, ICCPrimary AccessionQ12983ReactivityHuman, RatHostRabbit

Clonality Monoclonal Antibody

Calculated MW 21541

Additional Information

Gene ID 664

Other Names BNIP3

Dilution WB~~1/500-1/1000 ICC~~N/A

Format 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and

0.05% BSA.

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

Protein Information

Name BNIP3 (HGNC:1084)

Synonyms NIP3

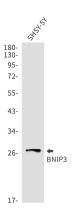
Function Apoptosis-inducing protein that can overcome BCL2 suppression. May play a

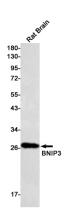
role in repartitioning calcium between the two major intracellular calcium stores in association with BCL2. Involved in mitochondrial quality control via its interaction with SPATA18/MIEAP: in response to mitochondrial damage, participates in mitochondrial protein catabolic process (also named MALM) 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.

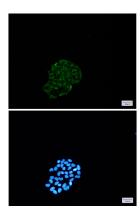
Cellular Location Mitochondrion. Mitochondrion outer membrane; Single-pass membrane

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

Images







Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.