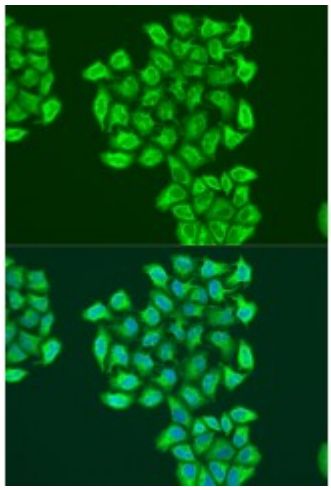
Anti-BNIP3 Antibody



Description	This gene is 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.

Model	STJ117226
Host	Rabbit
Reactivity	Human
Applications	IF
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-140 of human BNIP3 (NP_004043.3).
Gene ID	664
Gene Symbol	BNIP3
Dilution range	IF 1:50 - 1:200
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3
Molecular Weight	27.832 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG

Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:1084OMIM:603293
Alternative Names	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3
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 Localization	Mitochondrion, Mitochondrion outer membrane