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BNIP3L BH3 Domain Antibody Blocking Peptide

Synthetic peptide
Catalog # BP1320a

Specification

BNIP3L BH3 Domain Antibody Blocking Peptide - Product Information

Primary Accession O60238

BNIP3L BH3 Domain Antibody Blocking Peptide - Additional Information

Gene ID 665

Other Names
BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like, Adenovirus E1B19K-binding protein B5, BCL2/adenovirus E1B 19 kDa protein-interacting protein 3A, NIP3-like protein X, NIP3L, BNIP3L, BNIP3A, BNIP3H, NIX

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1320a was selected from the region of human BNIP3L BH3 Domain. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BNIP3L BH3 Domain Antibody Blocking Peptide - Protein Information

Name BNIP3L

Synonyms BNIP3A, BNIP3H, NIX

Function
Induces apoptosis. Interacts with viral and cellular anti- apoptosis proteins. Can overcome the suppressors BCL-2 and BCL-XL, although high levels of BCL-XL expression will inhibit apoptosis. Inhibits apoptosis induced by BNIP3. 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. May function as a tumor suppressor.

Cellular Location
Nucleus envelope. Endoplasmic reticulum. Mitochondrion outer membrane. Membrane; Single-pass membrane protein. Note=Colocalizes with SPATA18 at the mitochondrion outer membrane

BNIP3L BH3 Domain Antibody Blocking Peptide - Protocols

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

- Blocking Peptides

BNIP3L BH3 Domain Antibody Blocking Peptide - Images

BNIP3L BH3 Domain Antibody Blocking Peptide - Background

BNIP3L is a member of the BCL2/adenovirus E1B 19 kd-interacting protein (BNIP) family. It interacts with the E1B 19 kDa protein which is responsible for the protection of virally-induced cell death, as well as E1B 19 kDa-like sequences of BCL2, also an apoptotic protector. The protein encoded by this gene is a functional homolog of BNIP3, a proapoptotic protein. This protein may function simultaneously with BNIP3 and may play a role in tumor suppression.

BNIP3L BH3 Domain Antibody Blocking Peptide - References

Aerbajinai, W., et al., Blood 102(2):712-717 (2003).Passer, B.J., et al., Proc. Natl. Acad. Sci. U.S.A. 100(5):2284-2289 (2003).Ohi, N., et al., Cell Death Differ. 6(4):314-325 (1999).Chen, G., et al., J. Biol. Chem. 274(1):7-10 (1999).Yasuda, M., et al., Cancer Res. 59(3):533-537 (1999).