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Puma BH3 Domain Antibody Blocking Peptide

Synthetic peptide
Catalog # BP1317a

Specification

Puma BH3 Domain Antibody Blocking Peptide - Product Information

Primary Accession Q9BXH1

Puma BH3 Domain Antibody Blocking Peptide - Additional Information

Gene ID 27113

Other Names
Bcl-2-binding component 3, JFY-1, p53 up-regulated modulator of apoptosis, BBC3, PUMA

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1317a was selected from the region of human Puma 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.

Puma BH3 Domain Antibody Blocking Peptide - Protein Information

Name BBC3

Synonyms PUMA

Function
Essential mediator of p53/TP53-dependent and p53/TP53- independent apoptosis (PubMed:11463391, PubMed:23340338). Promotes partial unfolding of BCL2L1 and dissociation of BCL2L1 from p53/TP53, releasing the bound p53/TP53 to induce apoptosis (PubMed:23340338). Regulates ER stress-induced neuronal apoptosis (By similarity).

Cellular Location
Mitochondrion Note=Localized to the mitochondria in order to induce cytochrome c release

Tissue Location
Ubiquitously expressed.

Puma BH3 Domain Antibody Blocking Peptide - Protocols

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

- Blocking Peptides

Puma BH3 Domain Antibody Blocking Peptide - Images

Puma BH3 Domain Antibody Blocking Peptide - Background

PUMA is one of the pro-apoptotic Bcl-2 family members including Bax and Noxa, which are also transcriptional targets of p53. The PUMA gene encodes two BH3 domain-containing proteins termed PUMA-a and PUMA-b. PUMA proteins bind Bcl-2, localize to the mitochondria, and induce cytochrome c release and apoptosis in response to p53. PUMA may be a direct mediator of p53-induced apoptosis.

Puma BH3 Domain Antibody Blocking Peptide - References

Liu, F.T., et al., Biochem. Biophys. Res. Commun. 310(3):956-962 (2003).Hoque, M.O., et al., Cancer Lett. 199(1):75-81 (2003).Yu, J., et al., Proc. Natl. Acad. Sci. U.S.A. 100(4):1931-1936 (2003).Han, J., et al., Proc. Natl. Acad. Sci. U.S.A. 98(20):11318-11323 (2001).Nakano, K., et al., Mol. Cell 7(3):683-694 (2001).