

BCL2A1 (A1) Antibody (BH3 Domain Specific) Blocking peptide
Synthetic peptide
Catalog # BP1300a**Specification**

BCL2A1 (A1) Antibody (BH3 Domain Specific) Blocking peptide - Product InformationPrimary Accession [Q16548](#)**BCL2A1 (A1) Antibody (BH3 Domain Specific) Blocking peptide - Additional Information****Gene ID** 597**Other Names**

Bcl-2-related protein A1, Bcl-2-like protein 5, Bcl2-L-5, Hemopoietic-specific early response protein, Protein BFL-1, Protein GRS, BCL2A1, BCL2L5, BFL1, GRS, HBPA1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1300a](/product/products/AP1300a) was selected from the region of human A1 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.

BCL2A1 (A1) Antibody (BH3 Domain Specific) Blocking peptide - Protein Information**Name** BCL2A1**Synonyms** BCL2L5, BFL1, GRS, HBPA1**Function**

Retards apoptosis induced by IL-3 deprivation. May function in the response of hemopoietic cells to external signals and in maintaining endothelial survival during infection (By similarity). Can inhibit apoptosis induced by serum starvation in the mammary epithelial cell line HC11 (By similarity).

Cellular Location

Cytoplasm.

Tissue Location

Seems to be restricted to the hematopoietic compartment. Expressed in peripheral blood, spleen, and bone marrow, at moderate levels in lung, small intestine and testis, at a minimal levels in other tissues. Also found in vascular smooth muscle cells and hematopoietic malignancies

BCL2A1 (A1) Antibody (BH3 Domain Specific) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

BCL2A1 (A1) Antibody (BH3 Domain Specific) Blocking peptide - Images

BCL2A1 (A1) Antibody (BH3 Domain Specific) Blocking peptide - Background

Bcl-2 related Protein A1 is a member of the BCL-2 protein family. The proteins of this family form hetero- or homodimers and act as anti- and pro-apoptotic regulators that are involved in a wide variety of cellular activities such as embryonic development, homeostasis and tumorigenesis. The protein encoded by this gene is able to reduce the release of pro-apoptotic cytochrome c from mitochondria and block caspase activation. This gene is a direct transcription target of NF-kappa B in response to inflammatory mediators, and has been shown to be up-regulated by different extracellular signals, such as granulocyte-macrophage colony-stimulating factor (GM-CSF), CD40, phorbol ester and inflammatory cytokine TNF and IL-1, which suggests a cytoprotective function that is essential for lymphocyte activation as well as cell survival.

BCL2A1 (A1) Antibody (BH3 Domain Specific) Blocking peptide - References

Akatsuka, Y., et al., J. Exp. Med. 197(11):1489-1500 (2003). Edelstein, L.C., et al., Mol. Cell. Biol. 23(8):2749-2761 (2003). Werner, A.B., et al., J. Biol. Chem. 277(25):22781-22788 (2002). Akari, H., et al., J. Exp. Med. 194(9):1299-1311 (2001). Harrington, J.J., et al., Nat. Biotechnol. 19(5):440-445 (2001).