BCL2A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BCL2A1, Polyclonal Antibody
Full Product Name	BCL2A1, BH3 Domain Specific (BCL2A1, BCL2L5, BFL1, GRS, HBPA1, Bcl-2-related protein A1, Bcl-2-like protein 5, Hemopoietic-specific early response protein, Protein BFL-1, Protein GRS) (MaxLight 750)
Product Gene Name	anti-BCL2A1 antibody
Product Synonym Names	BCL2A1; BCL2L5; BFL1; GRS; HBPA1; Bcl-2-related protein A1; Bcl-2-like protein 5; Hemopoietic-specific early response protein; Protein BFL-1; Protein GRS
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human BCL2A1, BH3 Domain.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	175
OMIM	601056
3D Structure	ModBase 3D Structure for Q16548
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 30-65 of human BCL2A1, BH3 Domain.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-BCL2A1 antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-BCL2A1 antibody	Immunohistochemistry (IHC) Paraffin, FLISA, Western Blot (WB)
Application Notes for anti-BCL2A1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-BCL2A1 antibody	MBS6277964 is an antibody targeting BCL2A1. Also known as BCL2A1, BH3 Domain Specific (BCL2A1, BCL2L5, BFL1, GRS, HBPA1, Bcl-2-related protein A1, Bcl-2-like protein 5, Hemopoietic-specific early response protein, Protein BFL-1, Protein GRS) (MaxLight 750). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-BCL2A1 antibody	1. Akatsuka, Y., et al., J. Exp. Med. 197(11):1489-1500 (2003). 2. Edelstein, L.C., et al., Mol. Cell. Biol. 23(8):2749-2761 (2003). 3. Werner, A.B., et al., J. Biol. Chem. 77(25):22781-22788 (2002). 4. Akari, H., et al., J. Exp. Med. 194(9):1299-1311 (2001). 5. Harrington, J.J., et al., Nat. Biotechnol. 19(5):440-445 (2001).

Other Notes	Small volumes of anti-BCL2A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BCL2A1. It may not necessarily be applicable to this product.

NCBI GI #	2493280
NCBI GeneID	597
NCBI Accession #	Q16548.1
UniProt Primary Accession #	Q16548
UniProt Secondary Accession #	Q6FGZ4; Q6FH19; Q86W13; Q99524
UniProt Related Accession #	Q16548
NCBI Official Full Name	Bcl-2-related protein A1
NCBI Official Synonym Full Names	BCL2-related protein A1
NCBI Official Symbol	BCL2A1
NCBI Official Synonym Symbols	GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5
UniProt Protein Name	Bcl-2-related protein A1
UniProt Synonym Protein Names	Bcl-2-like protein 5; Bcl2-L-5; Hemopoietic-specific early response protein; Protein BFL-1; Protein GRS
Protein Family	Bcl-2-related protein
UniProt Gene Name	BCL2A1
UniProt Synonym Gene Names	BCL2L5; BFL1; GRS; HBPA1; Bcl2-L-5
UniProt Entry Name	B2LA1_HUMAN
NCBI Protein Information	bcl-2-related protein A1; bcl2-L-5; protein BFL-1; bcl-2-like protein 5; hematopoietic BCL2-related protein A1; hemopoietic-specific early response protein
NCBI Summary for BCL2A1	This gene encodes 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 is 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for BCL2A1	BCL2A1: 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. Interacts directly with BAK1, BID, BMF and BBC3. Interacts directly with BCL2L11/BIM. Interacts with BAX isoform Sigma. Interacts directly with PMAIP1. By phorbol ester and inflammatory cytokines, such as TNF or IL1B/interleukin-1 beta, but not by growth factors. 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. Belongs to the Bcl-2 family. 2 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 15q24.3 Cellular Component: mitochondrial outer membrane Molecular Function: BH domain binding; protein binding; protein homodimerization activity; protein heterodimerization activity Biological Process: DNA damage response, signal transduction resulting in induction of apoptosis; negative regulation of apoptosis
Research Articles on BCL2A1	**1.** Bcl2a1 overexpressing granulocytic MDSCs demonstrated prolonged survival.
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