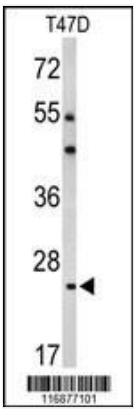
# BCL2A1 Antibody – Rabbit Polyclonal

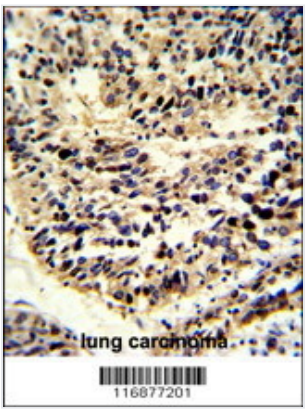
## PRODUCT OVERVIEW

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| **Product Name** | BCL2A1, Polyclonal Antibody |
| **Full Product Name** | BCL2A1, ID (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) (HRP) |
| **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 Horseradish Peroxidase (HRP). |
| **Purity/Purification** | Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. |
| **Molecular Weight** | 175 |
| **OMIM** | 601056 |
| **3D Structure** | ModBase 3D Structure for Q16548 |
| **Immunogen** | BCL2A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63~92 amino acids from the Center region of human BCL2A1. |
| **Conjugate** | HRP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-BCL2A1 antibody** | Antibodies; Apoptosis |
| **Applications Tested/Suitable for anti-BCL2A1 antibody** | Flow Cytometry (FC/FACS), ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB) |
| **Application Notes for anti-BCL2A1 antibody** | FC/FACS: 1:10-50<br>ELISA: 1:1,000<br>IHC: 1:50-100<br>WB: 1:50-100<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-BCL2A1 antibody** | MBS6277970 is an antibody targeting BCL2A1. Also known as BCL2A1, ID (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) (HRP). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-BCL2A1 antibody** | 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). |

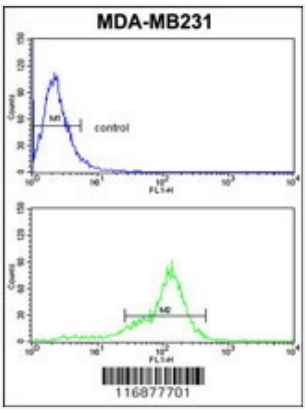
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| **Other Notes** | Small volumes of anti-BCL2A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid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




**Western Blot (WB) of anti-BCL2A1 antibody**
Western blot analysis of BCL2A1 Antibody (Center) in T47D cell line lysates (35ug/lane). BCL2A1 (arrow) was detected using the purified Pab.




**Immunohistochemistry (IHC) of anti-BCL2A1 antibody**
Formalin-fixed and paraffin-embedded human lung carcinoma reacted with BCL2A1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




**Flow Cytometry (FC/FACS) of anti-BCL2A1 antibody**
BCL2A1 Antibody (Center) flow cytometric analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## ADDITIONAL DETAILS

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

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|---|---|
| **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 |

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| **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.<br><br>Chromosomal Location of Human Ortholog: 15q24.3<br><br>Cellular Component: mitochondrial outer membrane<br><br>Molecular Function: BH domain binding; protein binding; protein homodimerization activity; protein heterodimerization activity<br><br>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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