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Bcl-B Antibody
Catalog # ASC10202

Specification

Bcl-B Antibody - Product Information

Application	**WB, ICC, E**
Primary Accession	Q9HD36
Other Accession	NP_065129, 10017
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**Bcl-B antibody can be used for the detection of Bcl-B by Western blot at 1 - 2 µg/mL. Despite its predicted molecular weight, Bcl-B is often at higher molecular weights, presumably due to post-translational modifications. Antibody can also be used for immunocytochemistry starting at 10 µg/mL.**

Bcl-B Antibody - Additional Information

Gene ID **10017**

Other Names
Bcl-B Antibody: Boo, Diva, BCL-B, BCLB, Bcl-2-like protein 10, Anti-apoptotic protein NrH, Bcl2-L-10, BCL2-like 10 (apoptosis facilitator)

Target/Specificity
Bcl-B antibody was raised against a 16 amino acid synthetic peptide from near the amino terminus of human Bcl-B.

The immunogen is located within amino acids 90 - 140 of Bcl-B.

Reconstitution & Storage
Bcl-B antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
Bcl-B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Bcl-B Antibody - Protein Information

Name BCL2L10 {ECO:0000303|PubMed:17532299}

Function
Promotes cell survival by suppressing apoptosis induced by BAX but not BAK (PubMed:11278245, PubMed:11689480). Increases

binding of AHCYL1/IRBIT to ITPR1 (PubMed:27995898). Reduces ITPR1-mediated calcium release from the endoplasmic reticulum cooperatively with AHCYL1/IRBIT under normal cellular conditions (PubMed:27995898). Under apoptotic stress conditions, dissociates from ITPR1 and is displaced from mitochondria-associated endoplasmic reticulum membranes, leading to increased Ca(2+) transfer to mitochondria which promotes apoptosis (PubMed:27995898). Required for the correct formation of the microtubule organizing center during oocyte cell division, potentially via regulation of protein abundance and localization of other microtubule organizing center components such as AURKA and TPX2 (By similarity).

Cellular Location
Mitochondrion. Nucleus membrane. Endoplasmic reticulum. Cytoplasm, cytoskeleton, spindle {ECO:0000250|UniProtKB:Q9Z0F3}. Note=Localizes to mitochondria-associated endoplasmic reticulum membranes (MAMs) (PubMed:27995898). Localization to MAMs is greatly reduced under apoptotic stress conditions (PubMed:27995898)

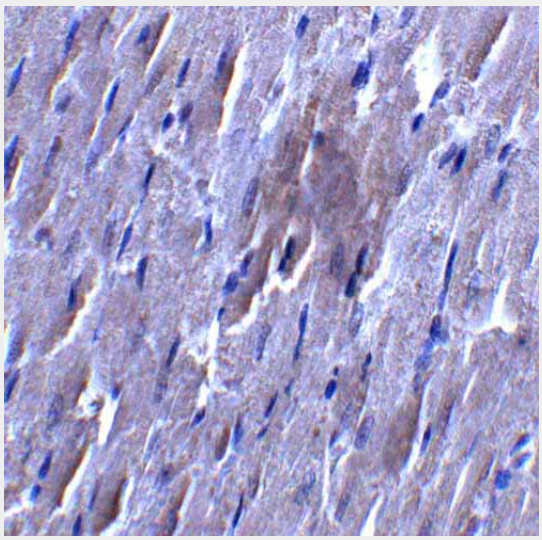
Tissue Location
Widely expressed in adult tissues. Preferentially expressed in lung, liver and kidney.

Bcl-B Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Bcl-B Antibody - Images



Immunocytochemistry of SLC27A6 in rat heart tissue with SLC27A6 antibody at 5 µg/mL.

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Bcl-B Antibody - Background

Bcl-B Antibody: Members in the Bcl-2 family are critical regulators of apoptosis by either inhibiting or promoting cell death. Bcl-B is a recently discovered anti-apoptotic member of the Bcl-2. Unlike the mouse homolog (also known as Diva/Boo) which is predominantly expressed in ovary and testis, the human Bcl-B protein is widely expressed. Also, the human Bcl-B functions by binding to and suppressing the apoptotic activity of Bax, whereas the mouse homolog binds Bak and also interacts with the apoptosis protein Apaf-1.

Bcl-B Antibody - References

Cory S, Huang DCS, and Adams JM. The Bcl-2 family: roles in cell survival and oncogenesis. Oncogene 2003; 22:8590-607
Heiser D, Labi V, Erlacher M, et al. The Bcl-2 protein family and its role in the development of neoplastic disease. Exp. Geron. 2004; 39:1125-35.
Ke N, Godzik A, and Reed JC. Bcl-B: A novel Bcl-2 family member that differentially binds and regulates Bax and Bak. J. Biol. Chem. 2001; 276:12481-4.
Song Q, Kuang Y, Dixit VM, et al. Boo, a negative regulator of cell death, interacts with Apaf-1. EMBO J. 1999; 18:167-78.