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Bcl-2 Antibody (Clone Bcl-2/100)

Mouse Monoclonal Antibody

Catalog # ABV10161

Specification

Bcl-2 Antibody (Clone Bcl-2/100) - Product Information

Application	**WB, IHC, IP**
Primary Accession	P10415
Other Accession	M13994
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**26266**

Bcl-2 Antibody (Clone Bcl-2/100) - Additional Information

Gene ID 596

Application & Usage	**Western blot (1-4 µg/ml), Immunoprecipitation, Immunohistochemistry, and Flow cytometry. However the optimal conditions should be determined individually. Recognize the 26 kDa human Bcl-2**

Other Names
BCL2, BCL 2

Target/Specificity
Bcl-2

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) protein A purified from (low FBS containing) tissue culture supernatant. Purity was >95%. The antibody was formulated in PBS containing 1 mg/ml BSA and 1.5 mM sodium azide and 50% glycerol

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Bcl-2 Antibody (Clone Bcl-2/100) is for research use only and not for use in diagnostic or therapeutic procedures.

Bcl-2 Antibody (Clone Bcl-2/100) - Protein Information

Name BCL2

Function
Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells (PubMed:1508712, PubMed:8183370). Regulates cell death by controlling the mitochondrial membrane permeability (PubMed:11368354). Appears to function in a feedback loop system with caspases (PubMed:11368354). Inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1) (PubMed:11368354). Also acts as an inhibitor of autophagy: interacts with BECN1 and AMBRA1 during non-starvation conditions and inhibits their autophagy function (PubMed:18570871, PubMed:21358617, PubMed:20889974). May attenuate inflammation by impairing NLRP1-inflammasome activation, hence CASP1 activation and IL1B release (PubMed:17418785).

Cellular Location
Mitochondrion outer membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Endoplasmic reticulum membrane; Single-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:P10417}

Tissue Location
Expressed in a variety of tissues.

Bcl-2 Antibody (Clone Bcl-2/100) - 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-2 Antibody (Clone Bcl-2/100) - Images

Bcl-2 Antibody (Clone Bcl-2/100) - Background

Bcl-2 (B-cell leukemia/lymphoma 2) gene was discovered by walking the chromosomal breakpoints t(14;18). This gene consists of two exons and several transcripts that encode two different protein

products, Bcl-2α and Bcl-2β. Both proteins are approximately 26-30 kDa and differ at their C-terminal region. Bcl-2 suppresses apoptosis (programmed cell death) and this property appears to be modulated by homodimerization or association with Bax and Bad, two cell death promoters