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Bcl-2 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10025

Specification

Bcl-2 Antibody - Product Information

Application	**WB**
Primary Accession	P10415
Other Accession	M13994
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**26266**

Bcl-2 Antibody - Additional Information

Gene ID 596

Application & Usage	**Western blot analysis (0.5-4 µg/ml), Immunoprecipation (4-8 µg/ml), and Immunohistochemistry (10-20 µg/ml). Detects a 25 kDa protein, corresponding to the apparent molecular weight of the α isoform of Bcl-2 on SDS-PAGE immunoblots.**

Other Names
BCL2, BCL 2

Target/Specificity
Bcl-2

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.2 mg/ml) affinity purified rabbit anti-Bcl-2 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Bcl-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Bcl-2 Antibody - 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.

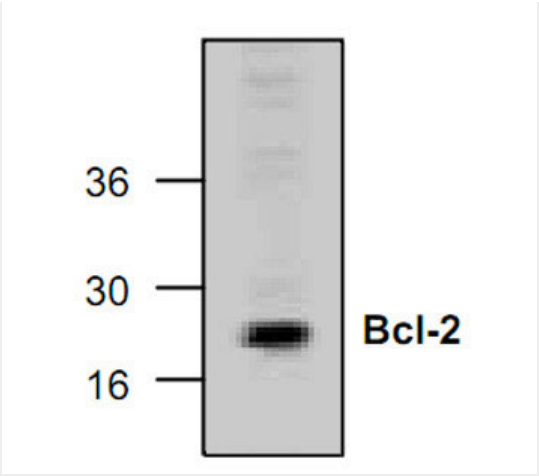
Bcl-2 Antibody - Protocols

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 - Images

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Western blot analysis of Bcl-2 expression in HL60 cell lysate.

Bcl-2 Antibody - Background

Bcl-2 and its homologs belong to a family of proteins that either promotes or prevent apoptosis. Bcl-2 alpha and beta are the alternatively spliced isoforms of 25 kDa and 22 kDa mitochondrial integral membrane proteins that inhibit apoptosis.