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Bcl-2 (Apoptosis & Follicular Lymphoma Marker) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone SPM530]
Catalog # AH10721

Specification

Bcl-2 (Apoptosis & Follicular Lymphoma Marker) Antibody - With BSA and Azide - Product Information

Application	**WB, IHC-P, IF, FC**
Primary Accession	P10415
Other Accession	596, 150749
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1, kappa**
Calculated MW	**25-26kDa KDa**

Bcl-2 (Apoptosis & Follicular Lymphoma Marker) Antibody - With BSA and Azide - Additional Information

Gene ID 596

Other Names
Apoptosis regulator Bcl-2, BCL2

Application Note
WB~~1:1000<br \>IHC-P~~N/A<br \>IF~~1:50~200<br \>FC~~1:10~50

Format
200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
Bcl-2 (Apoptosis & Follicular Lymphoma Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Bcl-2 (Apoptosis & Follicular Lymphoma Marker) Antibody - With BSA and Azide - Protein Information

Name BCL2

Function
Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells (PubMed:<a href="http://www.uniprot.org/citations/1508712"

target="_blank">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:20889974, PubMed:21358617). 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}

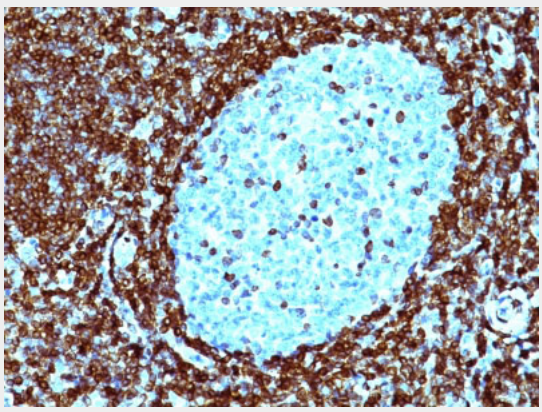
Tissue Location
Expressed in a variety of tissues.

Bcl-2 (Apoptosis & Follicular Lymphoma Marker) Antibody - With BSA and Azide - 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 (Apoptosis & Follicular Lymphoma Marker) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human non-Hodgkin's Lymphoma stained with Bcl-2

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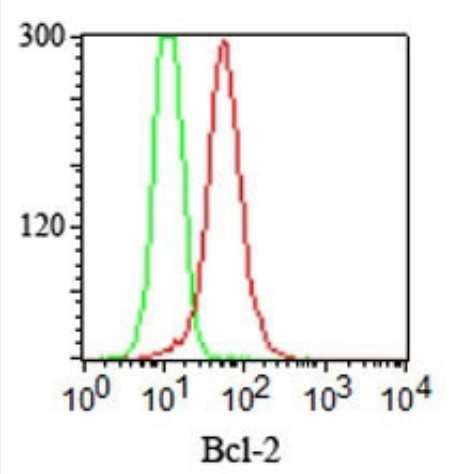
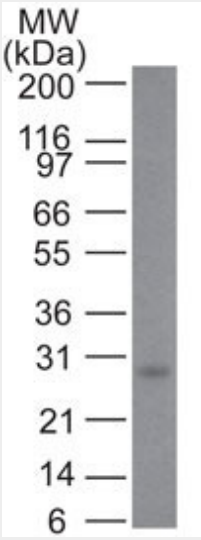
Monoclonal Antibody (SPM530).



Flow Cytometry of Jurkat cells using Bcl-2 Monoclonal Antibody (SPM530) (red) and isotype control (green).



Western Blot of Bcl-2 in human Skin using Bcl-2 Monoclonal Antibody (SPM530).

Bcl-2 (Apoptosis & Follicular Lymphoma Marker) Antibody - With BSA and Azide - Background

This antibody recognizes a protein of 25-26kDa, identified as the bcl-2 α oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein. Expression of bcl-2 α oncoprotein inhibits the programmed cell death (apoptosis). In most follicular lymphomas, neoplastic germinal centers express high levels of bcl-2 α protein, whereas the normal or hyperplastic germinal centers are negative. Consequently, this antibody is valuable when distinguishing between reactive and neoplastic follicular proliferation in lymph node biopsies. It may also be used in distinguishing between those follicular lymphomas that express bcl-2 protein and the small number in which the neoplastic cells are bcl-2 negative.

Bcl-2 (Apoptosis & Follicular Lymphoma Marker) Antibody - With BSA and Azide - References

Pezzella F et. al.. American Journal of Pathology, 1990, 137(2):225-32