

**Anti-Bcl-2 Antibody (Monoclonal, Bcl-2-100)**  
Catalog # ABO10400**Specification****Anti-Bcl-2 Antibody (Monoclonal, Bcl-2-100) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P49950</a>
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized

**Description**

Mouse IgG monoclonal antibody for Bcl-2, B-cell CLL/lymphoma 2 (BCL2) detection. Tested with WB, IHC-P, IHC-F, ICC in Human. No cross reactivity with other proteins.

**Reconstitution**

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

**Anti-Bcl-2 Antibody (Monoclonal, Bcl-2-100) - Additional Information**

**Gene ID** 24224

**Other Names**

Apoptosis regulator Bcl-2, Bcl2, Bcl-2

**Calculated MW**

26622 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.4-1 µg/ml, Human, By Heat  
<br>Immunocytochemistry , 1 µg/ml, Human, -<br>Immunohistochemistry(Frozen Section), 0.4-1 µg/ml, Human, -<br>Western blot, 1-2 µg/ml, Human<br>

**Subcellular Localization**

Mitochondrion outer membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Endoplasmic reticulum membrane; Single-pass membrane protein.

**Tissue Specificity**

Expressed in a variety of tissues, with highest levels in reproductive tissues. In the adult brain, expression is localized in mitral cells of the olfactory bulb, granule and pyramidal neurons of hippocampus, pontine nuclei, cerebellar granule neurons, and in ependymal cells. In prenatal brain, expression is higher and localized in the neuroepithelium and in the cortical plate.

**Protein Name**

Apoptosis regulator Bcl-2

**Contents**

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.

**Immunogen**

Synthetic peptide corresponding to residues 41-54 of the bcl-2 protein, conjugated to thyroglobulin.

**Purification**

Ascites

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the Bcl-2 family.

**Anti-Bcl-2 Antibody (Monoclonal, Bcl-2-100) - Protein Information**

**Name** Bcl2

**Synonyms** Bcl-2

**Function**

Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells. Regulates cell death by controlling the mitochondrial membrane permeability. Appears to function in a feedback loop system with caspases. 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). Also acts as an inhibitor of autophagy: interacts with BECN1 and AMBRA1 during non-starvation conditions and inhibits their autophagy function. May attenuate inflammation by impairing NLRP1- inflammasome activation, hence CASP1 activation and IL1B release.

**Cellular Location**

Mitochondrion outer membrane {ECO:0000250|UniProtKB:P10415}; Single-pass membrane protein. Nucleus membrane {ECO:0000250|UniProtKB:P10415}; Single-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P10415}; Single-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:P10417}

**Tissue Location**

Expressed in a variety of tissues, with highest levels in reproductive tissues. In the adult brain, expression is localized in mitral cells of the olfactory bulb, granule and pyramidal neurons of hippocampus, pontine nuclei, cerebellar granule neurons, and in ependymal cells. In prenatal brain, expression is higher and localized in the neuroepithelium and in the cortical plate

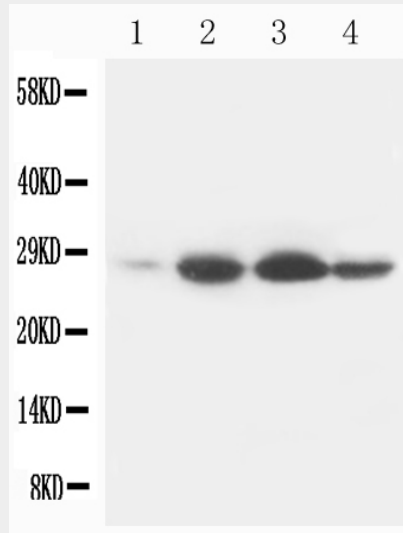
**Anti-Bcl-2 Antibody (Monoclonal, Bcl-2-100) - Protocols**

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

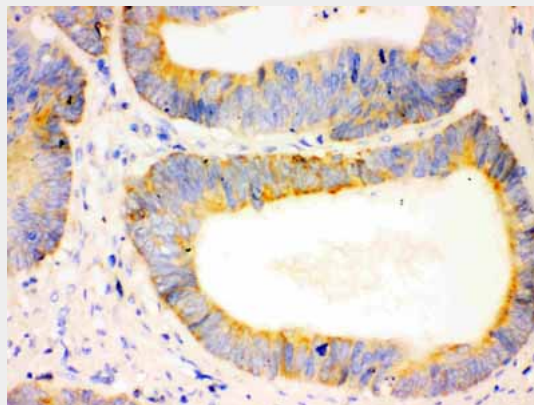
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

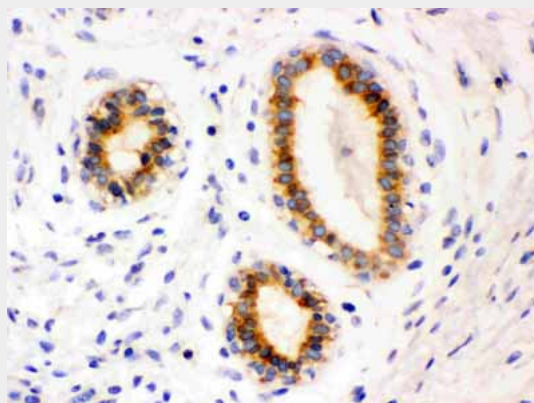
### Anti-Bcl-2 Antibody (Monoclonal, Bcl-2-100) - Images



Anti-Bcl-2 antibody (monoclonal), ABO10400, Western blotting  
Lane 1: Rat Heart Tissue Lysate  
Lane 2: Rat Spleen Tissue Lysate  
Lane 3: Rat Small Intestine Tissue Lysate  
Lane 4: Rat Liver Tissue Lysate



Anti-Bcl-2 antibody (monoclonal), ABO10400, IHC(P)  
IHC(P): Human Intestinal Cancer Tissue



Anti-Bcl-2 antibody (monoclonal), ABO10400, IHC(P)IHC(P): Human Mammary Cancer Tissue

**Anti-Bcl-2 Antibody (Monoclonal, Bcl-2-100) - Background**

Immunoreactive BCL2 protein in the neoplastic cells of almost all follicular lymphomas whereas no BCL2 protein was detected in follicles affected by nonneoplastic processes or in normal lymphoid tissue. Every tumor with molecular-genetic evidence of t(14;18) translocation expressed detectable levels of BCL2 protein, regardless of whether the breakpoint was located in or at a distance from the BCL2 gene. Overexpression of BCL2 blocks the apoptotic death of a pro-B-lymphocyte cell line.