10320 Camino Santa Fe, Suite G
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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	P49950
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

Immunocytochemistry , 1 µg/ml, Human, -
Immunohistochemistry(Frozen Section), 0.4-1 µg/ml, Human, -
Western blot, 1-2 µg/ml, Human

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 r˚Constitution, 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

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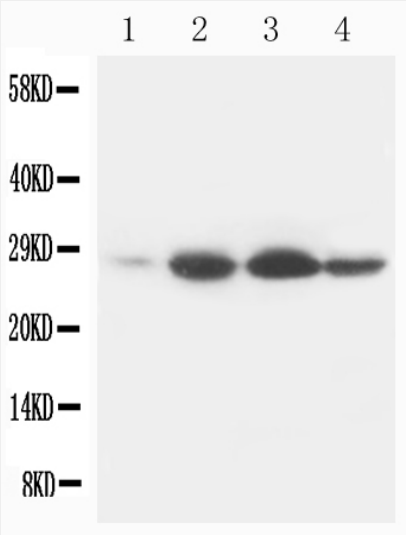
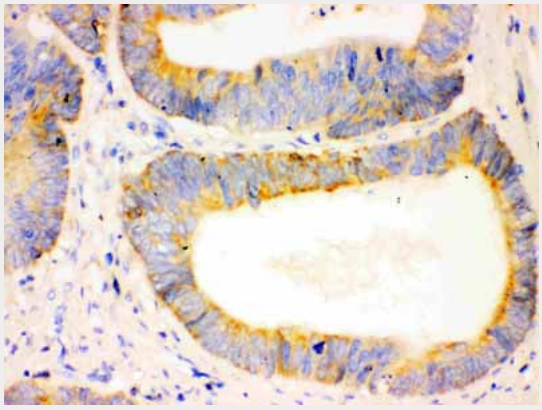
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

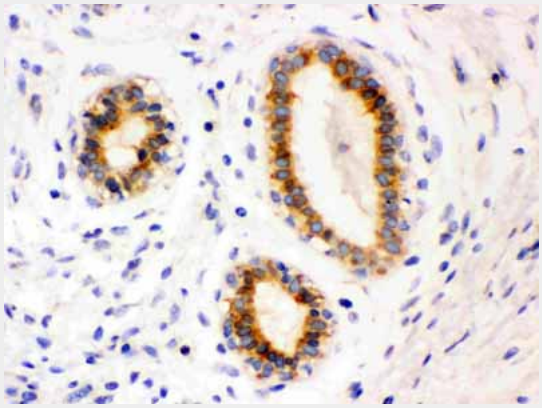
Anti-Bcl-2 Antibody (Monoclonal, Bcl-2-100) - Images



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



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



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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.