

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

Catalog # ABO10400

Product Information

Application	WB, IHC-P, IHC-F, ICC
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.

Additional Information

Gene ID	24224
Other Names	Apoptosis regulator Bcl-2, Bcl2, Bcl-2
Calculated MW	26622
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.4-1 μ g/ml, Human, By Heat Immunocytochemistry , 1 μ g/ml, Human, - Immunohistochemistry(Frozen Section), 0.4-1 μ g/ml, Human, - Western blot, 1-2 μ g/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.
Source	Eukaryota
Protein Name	Apoptosis regulator Bcl-2
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as

preservative.

Clone Names	Bcl-2-100
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.

Protein Information

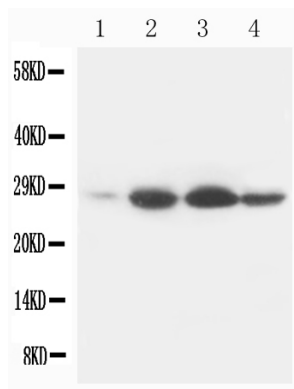
Name	Bcl2
Synonyms	Bcl-2
Function	Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells. Regulates cell death by controlling the mitochondrial membrane permeability. Appears to function in a feedback loop system with caspases. Inhibits caspase 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

Background

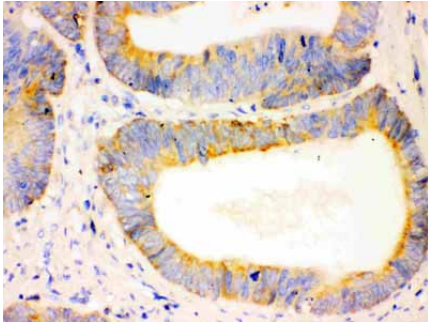
Immunoreactive BCL2 protein in the neoplastic cells of almost all follicular lymphomas whereas no BCL2 protein was detected in follicles affected by nonneoplastic processes or in normal lymphoid tissue. Every tumor with molecular-genetic evidence of t(14;18) translocation expressed detectable levels 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.

Images

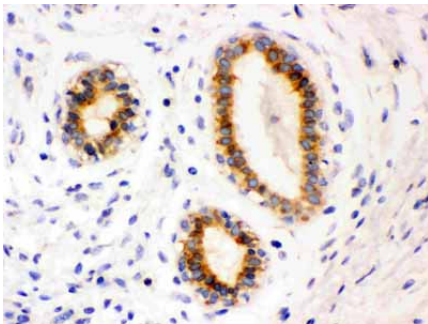
Anti-Bcl-2 antibody (monoclonal), ABO10400, Western blottingLane 1: Rat Heart Tissue LysateLane 2: Rat Spleen



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.