10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BCL-2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1430a

Specification

BCL-2 Antibody - Product Information

Application	**FC, IF, IHC**
Primary Accession	P10415
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**26kDa KDa**

Description
This gene encodes an integral outer mitochondrial membrane protein that blocks the apoptotic death of some cells such as lymphocytes. Constitutive expression of BCL2, such as in the case of translocation of BCL2 to Ig heavy chain locus, is thought to be the cause of follicular lymphoma.Tissue specificity: Expressed in a variety of tissues.

Immunogen
Synthetic peptide corresponding to residues surrounding BCL-2, conjugated to KLH.

Formulation
Ascitic fluid containing 0.03% sodium azide.

BCL-2 Antibody - Additional Information

Gene ID 596

Other Names
Apoptosis regulator Bcl-2, BCL2

Dilution
FC~~1/200 - 1/400
IF~~1/200 - 1/1000
IHC~~1/500 - 1/2000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

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: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 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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

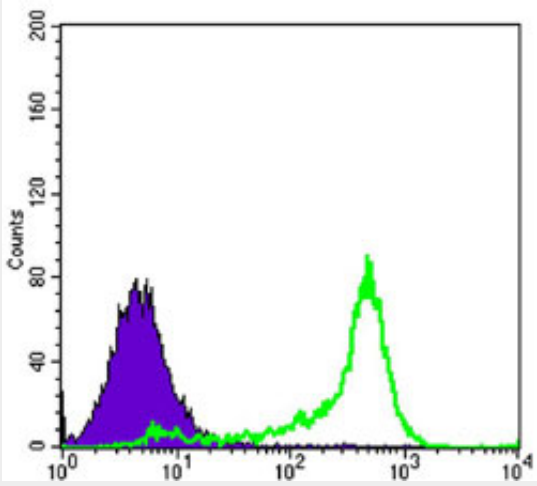

Figure 1: Flow cytometric analysis of 3T3L1 cells using BCL-2 mouse mAb (green) and negative control (purple).

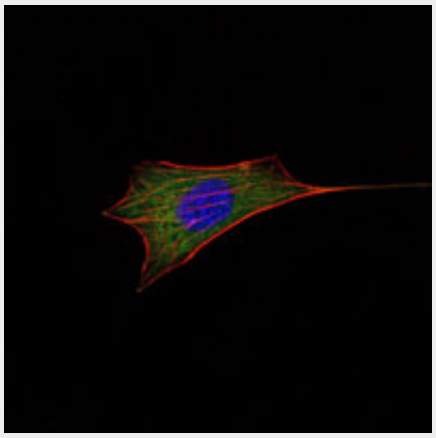

Figure 2: Immunofluorescence analysis of NIH/3T3 cells using BCL-2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

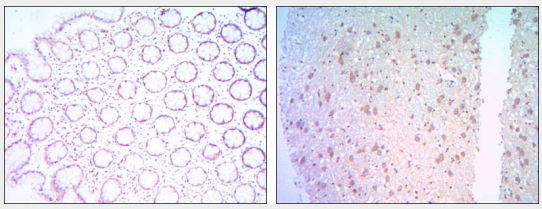

Figure 3: Immunohistochemical analysis of paraffin-embedded colon cancer tissues (left) and human brain tissues (right) using BCL-2 mouse mAb with DAB staining.

BCL-2 Antibody - References

1. J Biol Chem. 2010 Mar 26;285(13):9770-9. 2. Pharmacogenomics J. 2010 Feb 16. 3. J Int Med Res. 2009 Nov-Dec;37(6):1868-76.