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



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

Mouse Monoclonal Antibody [Clone BCL2/782 + BCL2/796 ] Catalog # AH12254

### **Product Information**

**Application** WB, IHC, IF, FC

Primary Accession
Other Accession
Seactivity
Human
Host
Clonality
Monoclonal
Isotype
P10415
Human
Human
Mouse
Monoclonal
Mouse
Mouse / IgG's

Clone Names BCL2/782 + BCL2/796

Calculated MW 26266

## Additional Information

Gene ID 596

Other Names Apoptosis regulator Bcl-2, BCL2

**Application Note** WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50

**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.

#### **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:<u>18570871</u>, PubMed:<u>20889974</u>, PubMed:<u>21358617</u>). 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.

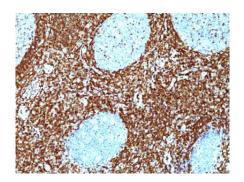
# **Background**

This antibody recognizes a protein of 25-26kDa, identified as the bcl-2  $\alpha$  oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein. Expression of bcl-2  $\alpha$  oncoprotein inhibits the programmed cell death (apoptosis). In most follicular lymphomas, neoplastic germinal centers express high levels of bcl-2  $\alpha$  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.

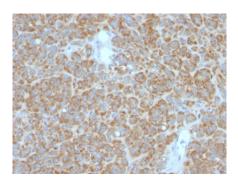
## References

Pezzella F et. al.. American Journal of Pathology, 1990, 137(2):225-32. | Adams, J.M., et al. 1998. The Bcl-2 protein family: arbiters of cell survival. Science 281: 1322-1326

# **Images**



Formalin-fixed, paraffin-embedded human non-Hodgkin's Lymphoma stained with Bcl-2 Monoclonal Antibody (BCL2/782 + BCL2/796).



Formalin-fixed, paraffin-embedded human Melanoma stained with Bcl-2 Monoclonal Antibody (BCL2/782 + BCL2/796).

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