

Datasheet: MCA1550

Description:	MOUSE ANTI HUMAN Bcl-2
Specificity:	Bcl-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	100
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			1/50 - 1/100
Immunohistology - Frozen	▪			1/20 - 1/40
Immunohistology - Paraffin (2)	▪			1/20 - 1/40
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) **Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

(2) **This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.**

Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Synthetic peptide, amino acids 41-54 of the Bcl-2 protein
External Database Links	<p>UniProt: P10415 Related reagents</p> <p>Entrez Gene: 596 BCL2 Related reagents</p>
Specificity	<p>Mouse anti Human Bcl-2 antibody, clone 100 recognizes the human Apoptosis regulator Bcl-2 oncoprotein, a 239 amino acid ~25kDa integral single pass membrane protein containing 4 BH motifs which lies within the cell rather than on the cell surface. The protein is localised in the outer mitochondrial membrane and plays a role in the inhibition of apoptosis.</p> <p>Mouse anti Human Bcl-2, clone 100 reacts with small B lymphocytes in the mantle zone and many cells within T cell areas. Very few cells in germinal centres are stained. In the thymus many cells in the medulla are stained but the cortex shows weak or negative staining. In non-haematopoietic tissues few cells are stained (Krajewski et al. 1995). The antibody reacts with neoplastic cells of follicular lymphoma and anaplastic large cell lymphoma (Reed 1997).</p> <p>Mouse anti human Bcl-2, clone 100 has been successfully used to demonstrate Bcl-2 in formalin fixed, paraffin embedded tissues of radioresistant squamous cell carcinoma by immunohistochemistry (Condon et al. 2002).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
Histology Positive Control Tissue	Human tonsil
References	<ol style="list-style-type: none"> 1. Tsujimoto, Y. & Croce, C.M. (1986) Analysis of the structure, transcripts, and protein products of bcl-2, the gene involved in human follicular lymphoma. Proc Natl Acad Sci U S A. 83 (14): 5214-8. 2. Cleary, M.L. et al. (1986) Cloning and structural analysis of cDNAs for bcl-2 and a hybrid bcl-2/immunoglobulin transcript resulting from the t(14;18) translocation. Cell. 47: 19-28. 3. Pezzella, F. et al. (1990) Expression of the bcl-2 oncogene protein is not specific for the 14;18 chromosomal translocation. Am J Pathol. 137 (2): 225-32. 4. Hockenbery, D. et al. (1990) Bcl-2 is an inner mitochondrial membrane protein that blocks programmed cell death. Nature. 348 (6299): 334-6. 5. Iannone, F. et al. (2005) Increased Bcl-2/p53 ratio in human osteoarthritic cartilage: a possible role in regulation of chondrocyte metabolism. Ann Rheum Dis. 64: 217-21. 6. Iscache, A.L. et al. (2011) Effects of BCL-2 over-expression on B cells in transgenic rats and rat hybridomas. Int Immunol. 23 (10): 625-36. 7. Chylicki, K. et al. (2000) Characterization of the molecular mechanisms for p53-mediated differentiation. Cell Growth Differ. 11: 561-71. 8. Berrieman, H.K. et al. (2005) The expression of Bcl-2 family proteins differs between nonsmall cell lung carcinoma subtypes. Cancer. 103: 1415-9. 9. Valgimigli, M. et al. (2003) Serum from patients with acute coronary syndromes displays a proapoptotic effect on human endothelial cells: a possible link to pan-coronary syndromes. Circulation. 107: 264-70. 10. Shenker, B.J. et al. (2001) Induction of apoptosis in human T cells by Actinobacillus actinomycetemcomitans cytolethal distending toxin is a consequence of G2 arrest of the cell cycle.

[J Immunol. 167: 435-41.](#)

11. Fimognari, C. *et al.* (2002) Growth inhibition, cell-cycle arrest and apoptosis in human T-cell leukemia by the isothiocyanate sulforaphane. [Carcinogenesis. 23: 581-6.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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