

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>
RRID	AB_2064303
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). Mouse anti Human Bcl-2 antibody, clone 100 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 1×10^6 cells in 100ul.
Histology Positive Control Tissue	Human tonsil
References	<ol style="list-style-type: none"> Cleary, M.L. <i>et al.</i> (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. Hockenbery, D. <i>et al.</i> (1990) Bcl-2 is an inner mitochondrial membrane protein that blocks programmed cell death. Nature. 348 (6299): 334-6. Chylicki, K. <i>et al.</i> (2000) Characterization of the molecular mechanisms for

p53-mediated differentiation. [Cell Growth Differ. 11: 561-71.](#)

4. Shenker, B.J. ,i>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.](#)

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. 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.](#)

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. 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 This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 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 (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#), [DyLight®650](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Negative Controls

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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