

## Datasheet: MCA1550

<b>Description:</b>	MOUSE ANTI HUMAN Bcl-2
<b>Specificity:</b>	Bcl-2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	100
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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	▪			

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** 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 permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended 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.**

<b>Target Species</b>	Human
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<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Synthetic peptide, amino acids 41-54 of the Bcl-2 protein
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P10415</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">596</a>    BCL2    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2064303
<b>Specificity</b>	<p><b>Mouse anti Human Bcl-2 antibody, clone 100</b> recognizes the human Apoptosis regulator Bcl-2 oncoprotein, a 239 amino acid ~25kDa integral single pass membrane protein containing 4 <a href="#">BH motifs</a> 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 (<a href="#">Krajewski et al. 1995</a>). Mouse anti Human Bcl-2 antibody, clone 100 reacts with neoplastic cells of follicular lymphoma and anaplastic large cell lymphoma (<a href="#">Reed 1997</a>).</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 (<a href="#">Condon et al. 2002</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>Histology Positive Control Tissue</b>	Human tonsil
<b>References</b>	1. Chylicki, K. <i>et al.</i> (2000) Characterization of the molecular mechanisms for

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

2. 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.](#)
3. 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.](#)
4. 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.](#)
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. Berrieman, H.K. *et al.* (2005) The expression of Bcl-2 family proteins differs between nonsmall cell lung carcinoma subtypes. [Cancer. 103: 1415-9.](#)
7. 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.](#)

Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1550">https://www.bio-rad-antibodies.com/SDS/MCA1550</a></p> <p>10040</p>
Regulatory	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

## Recommended Negative Controls

### MOUSE IgG1 NEGATIVE CONTROL (MCA928)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)

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