Datasheet: MCA1550

BATCH NUMBER 171797

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	▪			

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Learn about how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

(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.

Target Species	Human
Product Form	Purified IgG - liquid

Preparation	Purified IgG prepared by affinity chromatography on Protein A 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	**UniProt:** P10415 Related reagents **Entrez Gene:** 596 BCL2 Related reagents
RRID	AB_2064303
Specificity	**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. 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). 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).
Flow Cytometry	Use 10ul of the suggested working dilution to label $1x10^6$ cells in 100ul.
Histology Positive Control Tissue	Human tonsil
References	1. Chylicki, K. *et al.* (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	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
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1550
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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