

Datasheet: MCA811GA

Description:	MOUSE ANTI RABBIT MHC CLASS II DQ
Specificity:	MHC CLASS II DQ
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2C4
Isotype:	IgG2a
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	▪			1/25 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Rabbit
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 (NaN ₃)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Rabbit spleen cells
Fusion Partners	Spleen cells from immunised mice were fused with cells of the P3.X63. Ag8.653 mouse myeloma cell line
Specificity	<p>Mouse anti rabbit MHC class II monoclonal antibody, clone 2C4 recognizes the class II RLA-DQ molecule. The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In rabbits, this complex is referred to as the rabbit leukocyte antigen (RLA) region. There are 3 major MHC class II proteins encoded by the RLA which are RLA DP, RLA DQ and RLA DR.</p> <p>Mouse anti rabbit MHC class II recognizes the RLA DQ molecule, expressed by antigen presenting cells, B cells and monocytes.</p> <p>This antibody is reported to inhibit the mixed lymphocyte reaction by 80%. Immunoprecipitation studies yield three bands of molecular weight 28, 31 and 35 kDa.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood
References	<ol style="list-style-type: none"> 1. Lobel, S.A. <i>et al.</i> (1984) The role of rabbit Ia molecules in immune functions as determined with the use of an anti-Ia monoclonal antibody. Immunology 51: 35-43. 2. Spieker-Polet, H. <i>et al.</i> (1990) Rabbit major histocompatibility complex. IV. Expression of major histocompatibility complex class II genes. J Immunogenet. 17 (1-2): 123-32. 3. Matsumura, T. <i>et al.</i> (1999) Suppression of atherosclerotic development in Watanabe heritable hyperlipidemic rabbits treated with an oral antiallergic drug, tranilast. Circulation 99 (7): 919-24. 4. Yuan, T. <i>et al.</i> (2010) Chondrogenic differentiation and immunological properties of mesenchymal stem cells in collagen type I hydrogel. Biotechnol Prog. 26 (6): 1749-58. 5. Andersen, H.O. <i>et al.</i> (1999) Effect of cyclosporine on arterial balloon injury lesions in cholesterol-clamped rabbits: T lymphocyte-mediated immune responses not involved in balloon injury-induced neointimal proliferation. Arterioscler Thromb Vasc Biol. 19: 1687-94. 6. Alt, C. <i>et al.</i> (2009) Increased CCL2 expression and macrophage/monocyte migration during microbicide-induced vaginal irritation. Curr HIV Res. 7: 639-49. 7. Wilkinson, J.M. <i>et al.</i> (1992) A cytotoxic rabbit T-cell line infected with a gamma-herpes virus which expresses CD8 and class II antigens. Immunology 77: 106-8. 8. Idogawa, H. <i>et al.</i> (1997) Progression of articular destruction and the production of tumour necrosis factor-alpha in antigen-induced arthritis in rabbits. Scand J Immunol. 46: 572-80. 9. Shen, W. <i>et al.</i> (2013) Osteoarthritis prevention through meniscal regeneration induced by intra-articular injection of meniscus stem cells. Stem Cells Dev. 22 (14): 2071-82.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend</p>

microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

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

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

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

Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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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://www.bio-rad-antibodies.com/datasheets)

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