

## Datasheet: MCA811GA

**BATCH NUMBER 172130**

<b>Description:</b>	MOUSE ANTI RABBIT MHC CLASS II DQ
<b>Specificity:</b>	MHC CLASS II DQ
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2C4
<b>Isotype:</b>	IgG2a
<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	▪			1/25 - 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.

<b>Target Species</b>	Rabbit
<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 (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Rabbit spleen cells
<b>Fusion Partners</b>	Spleen cells from immunised mice were fused with cells of the P3.X63. Ag8.653 mouse myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Rabbit MHC class II monoclonal antibody, clone 2C4</b> 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>Mouse anti rabbit MHC class II monoclonal antibody, clone 2C4 is able to significantly inhibit the mixed lymphocyte reaction. Immunoprecipitation with the antibody yields three bands of molecular weights 28, 31 and 35 kDa.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood
<b>References</b>	<ol style="list-style-type: none"> <li>1. Spieker-Polet, H. <i>et al.</i> (1990) Rabbit major histocompatibility complex. IV. Expression of major histocompatibility complex class II genes. <a href="#">J Immunogenet. 17 (1-2): 123-32.</a></li> <li>2. 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. <a href="#">Immunology 77: 106-8.</a></li> <li>3. 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. <a href="#">Scand J Immunol. 46: 572-80.</a></li> <li>4. 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. <a href="#">Arterioscler Thromb Vasc Biol. 19: 1687-94.</a></li> <li>5. Matsumura, T. <i>et al.</i> (1999) Suppression of atherosclerotic development in Watanabe heritable hyperlipidemic rabbits treated with an oral antiallergic drug, tranilast. <a href="#">Circulation 99 (7): 919-24.</a></li> <li>6. Alt, C. <i>et al.</i> (2009) Increased CCL2 expression and macrophage/monocyte migration during microbicide-induced vaginal irritation. <a href="#">Curr HIV Res. 7: 639-49.</a></li> <li>7. Yuan, T. <i>et al.</i> (2010) Chondrogenic differentiation and immunological properties of mesenchymal stem cells in collagen type I hydrogel. <a href="#">Biotechnol Prog. 26 (6): 1749-58.</a></li> <li>8. Shen, W. <i>et al.</i> (2013) Osteoarthritis prevention through meniscal regeneration induced by intra-articular injection of meniscus stem cells. <a href="#">Stem Cells Dev. 22 (14): 2071-82.</a></li> <li>9. Sun, F. <i>et al.</i> (2023) Biomimetic <i>in situ</i> tracheal microvascularization for segmental tracheal reconstruction in one-step. <a href="#">Bioeng Transl Med. 8 (4): e10534.</a></li> </ol>
<b>Storage</b>	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.

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<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA811GA">https://www.bio-rad-antibodies.com/SDS/MCA811GA</a>
<b>Regulatory</b>	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](#)

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

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

### Recommended Negative Controls

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)

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**Printed on 29 Jan 2026**