

## Datasheet: MCA2401P647

<b>Description:</b>	RAT ANTI MOUSE MHC CLASS II H-2I-Ak/d/b/q/r:RPE-Alexa Fluor® 647
<b>Specificity:</b>	MHC CLASS II H-2I-Ak/d/b/q/r
<b>Format:</b>	RPE-ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ER-TR3
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	100 TESTS

## 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	▪			Neat - 1/5

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>	Mouse
<b>Product Form</b>	Purified IgG conjugated to RPE-Alexa Fluor® 647 - lyophilized
<b>Reconstitution</b>	Reconstitute with 1.0ml distilled water

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE-Alexa Fluor®647 488nm laser	496	667
	RPE-Alexa Fluor®647 561nm laser	546	667

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative</b>	0.09% sodium azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% bovine serum albumin

5% sucrose

<b>Immunogen</b>	Isolated C3H thymic stromal cells.
<b>RRID</b>	AB_1935471
<b>Fusion Partners</b>	Cells from immunised rats were fused with cells of the mouse P3-X63-Ag8.563 myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse MHC Class II H-2I-Ak/D/B/Q/R antibody, clone ER-TR3</b> recognizes a polymorphic determinant of the mouse H-2I-A MHC class II antigen, reacting with haplotypes k, d, b, q and r. Mouse strains with the haplotypes s and f are not recognized by this antibody.</p> <p>Mouse MHC class II antigens are expressed by dendritic cells, B cells and macrophages. In thymus tissues, clone ER-TR3 stains cortical and medullary stromal cells.</p> <p>The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In mice, this complex is referred to as the H-2 region.</p>
<b>Flow Cytometry</b>	<p>Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl.</p> <p>The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A</a>/<a href="#">BUF041B</a>).</p>
<b>References</b>	<ol style="list-style-type: none"><li>1. Huiskamp, R. <i>et al.</i> (1985) Repopulation of the mouse thymus after sublethal fission neutron irradiation. II. Sequential changes in the thymic microenvironment. <a href="#">J Immunol. 134 (4): 2170-8.</a></li><li>2. Van Vliet, E. <i>et al.</i> (1985) Stromal cell types in the developing thymus of the normal and nude mouse embryo. <a href="#">Eur J Immunol. 15 (7): 675-81.</a></li><li>3. Matsuno, K. <i>et al.</i> (2002) Kupffer cell-mediated recruitment of dendritic cells to the liver crucial for a host defense. <a href="#">Dev Immunol. 9 (3): 143-9.</a></li></ol>
<b>Storage</b>	<p>Store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<p>This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research conducted by the buyer, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold</p>

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: 20487: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

<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)  
'M415017:221215'

**Printed on 15 Dec 2022**

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