

## 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 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.

<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

**Preparation** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.09% Sodium Azide

1% Bovine Serum Albumin

5% Sucrose

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<b>Immunogen</b>	Isolated C3H thymic stromal cells.
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<b>RRID</b>	AB_1935471
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<b>Fusion Partners</b>	Cells from immunised rats were fused with cells of the mouse P3-X63-Ag8.563 myeloma cell line.
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<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>
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<b>Flow Cytometry</b>	<p>Use 10ul of the suggested working dilution to label <math>10^6</math> cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A/B</a>).</p>
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<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>
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<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>
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<b>Guarantee</b>	12 months from date of despatch
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**Health And Safety Information**      Material Safety Datasheet documentation #20487 available at:  
20487: <https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf>

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**Regulatory**                      For research purposes only

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**Worldwide**

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Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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