

## Datasheet: MCA2401

<b>Description:</b>	RAT ANTI MOUSE MHC CLASS II H-2I-Ak/d/b/q/r
<b>Specificity:</b>	MHC CLASS II H-2I-Ak/d/b/q/r
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ER-TR3
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.25 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	▪			
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>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G 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>	Isolated C3H thymic stromal cells.
<b>RRID</b>	AB_877512
<b>Fusion Partners</b>	Cells from immunized 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>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<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> <li>4. Gadagkar, S.G. <i>et al.</i> (2023) CD36 neutralisation blunts TLR2-IRF7 but not IRF3 pathway in neonatal mouse brain and immature human microglia following innate immune challenge. <a href="#">Sci Rep. 13 (1): 2304.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<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/MCA2401">https://www.bio-rad-antibodies.com/SDS/MCA2401</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight@800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>

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