

Datasheet: MCA2401A488

Description:	RAT ANTI MOUSE MHC CLASS II H-2I-Ak/d/b/q/r:Alexa Fluor® 488
Specificity:	MHC CLASS II H-2I-Ak/d/b/q/r
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	ER-TR3
Isotype:	IgG2b
Quantity:	100 TESTS/1ml

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	▪			Neat - 1/10

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.

Target Species	Mouse						
Product Form	Purified IgG conjugated to Alexa Fluor® 488 - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®488</td> <td>495</td> <td>519</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®488	495	519
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
Alexa Fluor®488	495	519					
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						
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml						

Immunogen	Isolated C3H thymic stromal cells.
RRID	AB_906087
Fusion Partners	Cells from immunised rats were fused with cells of the mouse P3-X63-Ag8.563 myeloma cell line.
Specificity	<p>Rat anti Mouse MHC Class II H-2I-Ak/D/B/Q/R antibody, clone ER-TR3 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>
Flow Cytometry	<p>Use 10ul of the suggested working dilution to label 10^6 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 (BUF041A/B).</p>
References	<ol style="list-style-type: none"> Huiskamp, R. <i>et al.</i> (1985) Repopulation of the mouse thymus after sublethal fission neutron irradiation. II. Sequential changes in the thymic microenvironment. J Immunol. 134 (4): 2170-8. Van Vliet, E. <i>et al.</i> (1985) Stromal cell types in the developing thymus of the normal and nude mouse embryo. Eur J Immunol. 15 (7): 675-81. Matsuno, K. <i>et al.</i> (2002) Kupffer cell-mediated recruitment of dendritic cells to the liver crucial for a host defense. Dev Immunol. 9 (3): 143-9.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
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Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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Recommended Useful Reagents

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

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

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