

## Datasheet: MCA6078PE

<b>Description:</b>	RAT ANTI MOUSE MHC CLASS II I-A/I-E:RPE
<b>Specificity:</b>	MHC CLASS II I-A/I-E
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	M5/114.15.2
<b>Isotype:</b>	IgG2b
<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	■			1/5 - 1/10

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 R. Phycoerythrin (RPE) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.2 mg/ml		
<b>Immunogen</b>	Activated C57BL/6 mouse spleen cells.		

**External Database  
Links**

**UniProt:**

[Q31161](#)

[Related reagents](#)

<b>Fusion Partners</b>	Immunized (BN x Lewis)F <sub>1</sub> rat spleen cells were fused with the NS1 myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse MHC class II I-A/I-E antibody, clone M5/114.15.2</b> recognizes a polymorphic determinant shared by the mouse I-Ab/d/q and I-Ed/k MHC class II alloantigens expressed by mice of the H-2p/r/q/b/d/u haplotypes. This antibody does not recognize the I-Af/k/s MHC class II alloantigens.</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 histocompatibility 2 (H-2) region. MHC class II molecules are expressed by dendritic cells, B-cells and macrophages.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"><li>1. Anderson, M.S. &amp; Miller, J. (1992) Invariant chain can function as a chaperone protein for class II major histocompatibility complex molecules. <a href="#">Proc Natl Acad Sci U S A. 89 (6): 2282-6.</a></li><li>2. Miyazaki, T. <i>et al.</i> (1996) Mice lacking H2-M complexes, enigmatic elements of the MHC class II peptide-loading pathway. <a href="#">Cell. 84 (4): 531-41.</a></li><li>3. Curtsinger JM <i>et al.</i> (1999) Inflammatory cytokines provide a third signal for activation of naive CD4+ and CD8+ T cells. <a href="#">J Immunol. 162 (6): 3256-62.</a></li><li>4. Tan, C.S.E. <i>et al.</i> (2017) CD8+ T cell evasion mandates CD4+ T cell control of chronic gamma-herpesvirus infection. <a href="#">PLoS Pathog. 13 (4): e1006311.</a></li><li>5. Lawler, C. &amp; Stevenson, P.G. (2019) A CD4<sup>+</sup> T cell/NK cell axis of γ-herpesvirus control. <a href="#">J Virol. Nov 06 [Epub ahead of print].</a></li></ol>
<b>Storage</b>	<p>Store at +4°C. 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>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6078PE">https://www.bio-rad-antibodies.com/SDS/MCA6078PE</a></p> <p>10040</p>
<b>Regulatory</b>	For research purposes only

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