

## Datasheet: MCA2171

<b>Description:</b>	MOUSE ANTI CHICKEN MHC CLASS II MONOMORPHIC
<b>Specificity:</b>	MHC CLASS II MONOMORPHIC
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	21-1A6
<b>Isotype:</b>	IgG1
<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	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

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>	Chicken
<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
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Chicken bursa cells
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells of the mouse NS-1 myeloma cell line

<b>Specificity</b>	<p><b>Mouse anti Chicken MHC Class II (monomorphic) antibody, clone 21-1A6</b>, recognizes a monomorphic determinant on the chicken B-L molecule, the chicken class II major histocompatibility complex (MHC).</p> <p>The level of B-L expression is reported to increase during the bursal phase of B cell differentiation (<a href="#">Veromaa, T. et al. 1988</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Veromaa, T. <i>et al.</i> (1988) Expression of B-L and Bu-1 antigens in chickens bursectomized at 60 h of incubation. <a href="#">Eur J Immunol. 18 (2): 225-30.</a></li> <li>2. Vainio, O. <i>et al.</i> (1988) Antigen-presenting cell-T cell interaction in the chicken is MHC class II antigen restricted. <a href="#">J Immunol. 140 (9): 2864-8.</a></li> <li>3. Petkov, D.I. <i>et al.</i> (2009) Identification and characterization of two distinct bursal B-cell subpopulations following infectious bursal disease virus infection of White Leghorn chickens. <a href="#">Avian Dis. 53 (3): 347-55.</a></li> <li>4. Silva, A.B. <i>et al.</i> (2008) Functional analysis of neuropeptides in avian thymocyte development. <a href="#">Dev Comp Immunol. 32 (4): 410-20.</a></li> <li>5. Pavlova, S.P. <i>et al.</i> (2010) <i>In vitro</i> and <i>in vivo</i> characterization of glycoprotein C-deleted infectious laryngotracheitis virus. <a href="#">J Gen Virol. 91 (Pt 4): 847-57.</a></li> <li>6. Watrang, E. (2009) Phosphorothioate oligodeoxyribonucleotides induce in vitro proliferation of chicken B-cells. <a href="#">Vet Immunol Immunopathol. 131 (3-4): 218-28.</a></li> <li>7. Kamble, N.M. <i>et al.</i> (2016) Interaction of a live attenuated <i>Salmonella gallinarum</i> vaccine candidate with chicken bone marrow-derived dendritic cells. <a href="#">Avian Pathol. Jan 26:1-24. [Epub ahead of print]</a></li> <li>8. Jarosz, Ł. <i>et al.</i> (2016) Effects of feed supplementation with glycine chelate and iron sulfate on selected parameters of cell-mediated immune response in broiler chickens. <a href="#">Research in Veterinary Science. Apr 30 [Epub ahead of print]</a></li> <li>9. Eren, U. <i>et al.</i> (2016) The several elements of intestinal innate immune system at the beginning of the life of broiler chicks. <a href="#">Microsc Res Tech. Apr 26. [Epub ahead of print]</a></li> <li>10. Kamble, N.M. <i>et al.</i> (2016) Activation of chicken bone marrow-derived dendritic cells induced by a <i>Salmonella enteritidis</i> ghost vaccine candidate. <a href="#">Poultry Science. May 3 [Epub ahead of print]</a></li> <li>11. Jarosz, Ł. <i>et al.</i> (2016) Effects of feed supplementation with glycine chelate and iron sulfate on selected parameters of cell-mediated immune response in broiler chickens. <a href="#">Res Vet Sci. 107: 68-74.</a></li> <li>12. Shojadoost, B.<i>et al.</i> (2017) Interactions between lactobacilli and chicken macrophages induce antiviral responses against avian influenza virus <a href="#">Research in Veterinary Science. Oct 31 [Epub ahead of print].</a></li> </ol>
<b>Storage</b>	<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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Shelf Life</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

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