

# Datasheet: MCA2171GA

Description:	MOUSE ANTI CHICKEN MHC CLASS II MONOMORPHIC
Specificity:	MHC CLASS II MONOMORPHIC
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	21-1A6
Isotype:	lgG1
Quantity:	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 <u>www.bio-</u>						
	rad-antibodies.com/protocols. Yes No Not Determined Suggested Dilution						
	Flow Cytometry	•	NO	Not Determined	1/50 - 1/100		
	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 a						
	a guide only. It is recomm	nended th	at the use	er titrates the product f	or use in their own		
	system using appropriate	negative	/positive	controls.			
Target Species	Chicken						
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by supernatant	affinity cł	nromatogi	raphy on Protein A fror	n tissue culture		
Buffer Solution	Phosphate buffered salin	e					
Preservative Stabilisers	0.09% sodium azide (Nal	N <sub>3</sub> )					
Carrier Free	Yes						

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml			
Immunogen	Chicken bursa cells			
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the mouse NS-1 myeloma cell line			
Specificity	<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).			
	The level of B-L expression is reported to increase during the bursal phase of B cell differentiation ( <u>Veromaa <i>et al.</i> 1988</u> ).			
Flow Cytometry	Use 10µl of the suggested working dilution to label $10^6$ cells in $100µ$ l			
References	<ol> <li>Veromaa, T. <i>et al.</i> (1988) Expression of B-L and Bu-1 antigens in chickens bursectomized at 60 h of incubation. Eur J Immunol. 18 (2): 225-30.</li> <li>Vainio, O. <i>et al.</i> (1988) Antigen-presenting cell-T cell interaction in the chicken is MHC class II antigen restricted. J Immunol. 140 (9): 2864-8.</li> <li>Silva, A.B. <i>et al.</i> (2009) Functional analysis of neuropeptides in avian thymocyte development. Dev Comp Immunol. 32 (4): 410-20.</li> <li>Wattrang, E. (2009) Phosphorothioate oligodeoxyribonucleotides induce in vitro proliferation of chicken B-cells. <u>Vet Immunol Immunopathol.</u> 131 (3-4): 218-28.</li> <li>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. <u>Avian Dis.</u> 53 (3): 347-55.</li> <li>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. <u>J Gen Virol.</u> 91 (Pt 4): 847-57.</li> <li>Kamble, N.M. <i>et al.</i> (2016) Interaction of a live attenuated Salmonella gallinarum vaccine candidate with chicken bone marrow-derived dendritic cells induced by a Salmonella Enteritidis ghost vaccine candidate. <u>Poult Sci.</u> 95 (10): 2274-80.</li> <li>Eren, U. <i>et al.</i> (2016) The several elements of intestinal innate immune system at the beginning of the life of broiler chicks. <u>Microsc Res Tech.</u> 79 (7): 604-14.</li> <li>Jarosz, Ł. <i>et al.</i> et al. (2016) The effect of feed supplementation with a copper-glycine chelate and copper sulphate on selected humoral and cell-mediated immune parameters, plasma superoxide dismutase activity, ceruloplasmin and cytokine concentration in broiler chickens. J Anim Physiol Anim Nutr (Berl). 102 (1): e326-e336.</li> <li>Shojadoost, B. <i>et al.</i> (2018) The role of type I interferons (IFNs) in the regulation of</li> </ol>			

	chicken macrophage inflammatory response to bacterial challer 86: 156-70.	nge. <u>Dev Comp Immunol.</u>
	14. Yildiz, M. <i>et al.</i> (2019) Histological and immunohistochemic caecum and caecal tonsils of quail ( <i>Coturnix coturnix japonica</i> ) (5): 476-85.	•
	15. Eren, U. <i>et al.</i> (2022) TLR2 and TLR4 molecules and antige compositions in cecal tonsils of broiler chicks ( <i>Gallus gallus dol</i> weeks of the post-hatch period. <u>Anat Histol Embryol. 51 (1): 12</u>	mesticus.) in the first two
	16. Saint-Martin, V. <i>et al.</i> (2024) The gut microbiota and its metabolism and antiviral immunity along the gut-lung axis in the ( <u>1): 1185.</u>	abolite butyrate shape
	17. Saxena, H.M. and Kaur, P. (2020) Insights into the Identity Target of Infectious Bursal Disease Virus on Chicken Bursal Ce <u>Microbiology 3.11 (2020): 61-73</u> .	
Storage	This product is shipped at ambient temperature. It is recommer -20°C on receipt. When thawed, aliquot the sample as needed, short term use (up to 4 weeks) and store the remaining aliquot	Keep aliquots at 2-8°C for
	Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended.	antibody. Storage in
Guarantee		antibody. Storage in
Guarantee Health And Safety Information	frost-free freezers is not recommended.	antibody. Storage in

### **Related Products**

## **Recommended Secondary Antibodies**

<u>RPE</u>				
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>				
<u>RPE</u>				
FITC				
HRP				
<u>FITC</u> , <u>HRP</u>				
FITC				
HRP				
Alk. Phos., DyLight®488, DyLight®550,				
DyLight®650, DyLight®680, DyLight®800,				
<u>FITC</u> , <u>HRP</u>				

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America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M433949:250116'

#### Printed on 16 Jan 2025

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