

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:	IgG1
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 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 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.

Target Species	Chicken
Product Form	Purified IgG - liquid
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 (NaN ₃)
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	<p>Mouse anti Chicken MHC Class II (monomorphic) antibody, clone 21-1A6, 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 (Veromaa et al. 1988).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 1. 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. 2. 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. 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. Avian Dis. 53 (3): 347-55. 4. Silva, A.B. <i>et al.</i> (2008) Functional analysis of neuropeptides in avian thymocyte development. Dev Comp Immunol. 32 (4): 410-20. 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. J Gen Virol. 91 (Pt 4): 847-57. 6. Watrang, E. (2009) Phosphorothioate oligodeoxyribonucleotides induce in vitro proliferation of chicken B-cells. Vet Immunol Immunopathol. 131 (3-4): 218-28. 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. Avian Pathol. 45 (2): 235-43. 8. Jarosz, Ł. <i>et al. 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. Res Vet Sci. 107: 68-74. 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. Microsc Res Tech. 79 (7): 604-14. 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. Poult Sci. 95 (10): 2274-80. 11. Jarosz, Ł.S. <i>et al.</i> (2018) 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. 12. Shojadoost, B. <i>et al.</i> (2019) Interactions between lactobacilli and chicken macrophages induce antiviral responses against avian influenza virus. Res Vet Sci. 125: 441-50. 13. Garrido, D. <i>et al.</i> (2018) The role of type I interferons (IFNs) in the regulation of

chicken macrophage inflammatory response to bacterial challenge. [Dev Comp Immunol. 86: 156-70.](#)

14. Yildiz, M. *et al.* (2019) Histological and immunohistochemical studies of the proximal caecum and caecal tonsils of quail (*Coturnix coturnix japonica*). [Anat Histol Embryol. 48 \(5\): 476-85.](#)

15. Eren, U. *et al.* (2022) TLR2 and TLR4 molecules and antigen-presenting cell compositions in cecal tonsils of broiler chicks (*Gallus gallus domesticus*.) in the first two weeks of the post-hatch period. [Anat Histol Embryol. 51 \(1\): 125-135.](#)

Storage 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
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