

Datasheet: MCA2166F

BATCH NUMBER 162433

Description:	MOUSE ANTI CHICKEN CD8 ALPHA:FITC
Specificity:	CD8 ALPHA
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	11-39
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	▪			Neat - 1/5

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 Chicken

Species Cross Reactivity Reacts with: Turkey
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form Purified IgG - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

Preparation Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Chicken T-cells.
RRID	AB_2075649
Fusion Partners	Lymph node cells from immunised Balb/c mice were fused with cells of the SP2/0 myeloma cell line.
Specificity	<p>Mouse anti chicken CD8 alpha, clone 11-39 recognizes the alpha chain of the chicken CD8 homologue, a 33-35 kDa cell surface protein. CD8 is expressed as either alpha/alpha homodimers or alpha/beta heterodimers on a subpopulation of T cells and NK cells. Mouse anti chicken CD8 alpha, clone 11-39 recognizes all polymorphic forms of chicken CD8 alpha.</p> <p>Mouse anti chicken CD8 alpha, clone 11-39 has been demonstrated to cross react with Turkey (Li et al. 1999).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> Luhtala, M. <i>et al.</i> (1995) Characterization of chicken CD8-specific monoclonal antibodies recognizing novel epitopes. Scand J Immunol. 42 (1): 171-4. Luhtala, M. <i>et al.</i> (1997) Polymorphism of chicken CD8-alpha, but not CD8-beta. Immunogenetics. 46 (5): 396-401. Li, Z. <i>et al.</i> (1999) Cross-reactive anti-chicken CD4 and CD8 monoclonal antibodies suggest polymorphism of the turkey CD8alpha molecule. Poult Sci. 78 (11): 1526-31. McKenna, G.F. (2003) Immunopathologic investigations with an attenuated chicken anemia virus in day-old chickens. Avian Dis. 47: 1339-45. Morimura, T. <i>et al.</i> (1996) Apoptosis and CD8-down-regulation in the thymus of chickens infected with Marek's disease virus. Arch Virol. 141 (11): 2243-9. Luhtala M (1998) Chicken CD4, CD8alphabeta, and CD8alphaalpha T cell co-receptor molecules. Poult Sci. 77 (12): 1858-73. Imhof, B.A. <i>et al.</i> (2000) Intestinal CD8 alpha alpha and CD8 alpha beta intraepithelial lymphocytes are thymus derived and exhibit subtle differences in TCR beta repertoires. J Immunol. 165 (12): 6716-22. Arstila, T.P. & Lassila, O. (1993) Androgen-induced expression of the peripheral blood gamma delta T cell population in the chicken. J Immunol. 151 (12): 6627-33. Bohls, R.L. <i>et al.</i> (2006) The use of flow cytometry to discriminate avian lymphocytes from contaminating thrombocytes. Dev Comp Immunol. 30 (9): 843-50. Powell, F.L. <i>et al.</i> (2009) The turkey, compared to the chicken, fails to mount an effective early immune response to <i>Histomonas meleagridis</i> in the gut. Parasite Immunol. 31 (6): 312-27. Katevuo, K. & Vainio, O. (1996) Thymocyte emigration in the chicken: an over-representation of CD4+ cells over CD8+ in the periphery. Immunology. 89 (3):

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14. Juul-Madsen, H.R. *et al.* (2002) Major histocompatibility complex-linked immune response of young chickens vaccinated with an attenuated live infectious bursal disease virus vaccine followed by an infection. [Poult Sci. 81 \(5\): 649-56.](#)

15. Wang, Y. *et al.* (2003) A novel method to analyze viral antigen-specific cytolytic activity in the chicken utilizing flow cytometry. [Vet Immunol Immunopathol. 95 \(1-2\): 1-9.](#)

16. Arstila, T.P. *et al.* (1995) Primed avian $\gamma\delta$ T cells respond to mycobacterial antigens, but show no preference for the 65-kDa heat shock protein. [Cell Immunol. 162 \(1\): 74-9.](#)

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18. Rosa, A.C. *et al.* (2014) Isolation and molecular characterization of Brazilian turkey reovirus from immunosuppressed young poults. [Arch Virol. 159 \(6\): 1453-7.](#)

19. Röhe I. *et al.* (2017) Effect of feeding soybean meal and differently processed peas on the gut mucosal immune system of broilers. [Poult Sci. 96 \(7\): 2064-73.](#)

20. Kannan, T.A. *et al.* (2017) Age Related Changes in T Cell Subsets in Thymus and Spleen of Layer Chicken (*Gallus domesticus*) [Int J Curr Microbiol App Sci. 6 \(1\): 15-9.](#)

21. Konieczka, P. *et al.* (2022) Increased arginine, lysine, and methionine levels can improve the performance, gut integrity and immune status of turkeys but the effect is interactive and depends on challenge conditions. [Vet Res. 53 \(1\): 59.](#)

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 #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2166F>
10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50

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