

Datasheet: MCA2166F

BATCH NUMBER 1608

Description:	MOUSE ANTI CHICKEN CD8 ALPHA:FITC	
Specificity:	CD8 ALPHA	
Format:	FITC	
Product Type:	Monoclonal Antibody	
Clone:	11-39	
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 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	Reacts with: Turke	ey		
Reactivity	reactivity is derived	ctivity and working conditi d from testing within our land cations from the originated.	aboratories, peer-reviewe	ed publications or
Product Form	Purified IgG - liquid	d		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	FITC	490	525	
Preparation	Purified IgG prepa supernatant	red by affinity chromatog	aphy on Protein G from t	issue culture
Buffer Solution	Phosphate buffere	d 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	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.
	Mouse anti chicken CD8 alpha, clone 11-39 has been demonstrated to cross react with Turkey (Li et al. 1999).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	1. Luhtala, M. <i>et al.</i> (1995) Characterization of chicken CD8-specific monoclonal antibodies recognizing novel epitopes. Scand J Immunol. 42 (1): 171-4. 2. Luhtala, M. <i>et al.</i> (1997) Polymorphism of chicken CD8-alpha, but not CD8-beta. Immunogenetics. 46 (5): 396-401. 3. 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. 4. McKenna, G.F. (2003) Immunopathologic investigations with an attenuated chicken anemia virus in day-old chickens. Avian Dis. 47: 1339-45. 5. 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. 6. Luhtala M (1998) Chicken CD4, CD8alphabeta, and CD8alphaalpha T cell co-receptor molecules. Poult Sci. 77 (12): 1858-73. 7. 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. 8. 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. 9. 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. 10. Powell, F.L. <i>et al.</i> (2009) The turkey, compared to the chicken, fails to mount an effective early immune response to Histomonas meleagridis in the gut. Parasite Immunol.

11. Katevuo, K. & Vainio, O. (1996) Thymocyte emigration in the chicken: an

over-representation of CD4+ cells over CD8+ in the periphery. <u>Immunology.89 (3)</u>:

31 (6): 312-27.

419-23.

- 12. Morimura, T. *et al.* (1995) Immunomodulation of peripheral T cells in chickens infected with Marek's disease virus: involvement in immunosuppression. <u>J Gen Virol. 76 (Pt 12):</u> 2979-85.
- 13. Powell, F. *et al.* (2009) Development of reagents to study the turkey's immune response: Identification and molecular cloning of turkey CD4, CD8α and CD28. <u>Dev Comp Immunol. 33 (4): 540-6.</u>
- 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. <u>Poult Sci. 81 (5): 649-56.</u>
- 15. Wang, Y. *et al.* (2003) A novel method to analyze viral antigen-specific cytolytic activity in the chicken utilizing flow cytometry. <u>Vet Immunol Immunopathol. 95 (1-2): 1-9.</u>
- 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.
- 17. Arstila, T.P. *et al.* (1994) $\gamma\delta$ and $\alpha\beta$ T cells are equally susceptible to apoptosis. <u>Scand J Immunol.</u> 40 (2): 209-15.
- 18. Rosa, A.C. *et al.* (2014) Isolation and molecular characterization of Brazilian turkey reovirus from immunosuppressed young poults. <u>Arch Virol. 159 (6): 1453-7.</u>
- 19. Röhe I. *et al.* (2017) Effect of feeding soybean meal and differently processed peas on the gut mucosal immune system of broilers. <u>Poult Sci. 96 (7): 2064-73.</u>
- 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.

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

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.

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 Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

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Europe

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Email: antibody_sales_de@bio-rad.com

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

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