

## Datasheet: MCA2166F

<b>Description:</b>	MOUSE ANTI CHICKEN CD8 ALPHA:FITC
<b>Specificity:</b>	CD8 ALPHA
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	11-39
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Chicken		
<b>Species Cross Reactivity</b>	Reacts with: Turkey <b>N.B.</b> Antibody reactivity and working conditions may vary between species.		
<b>Product Form</b>	Purified IgG - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<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 1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	Chicken T-cells.		
<b>Fusion Partners</b>	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 recognises 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<sup>6</sup> cells in 100ul.

---

**References**

1. Luhtala, M. *et al.* (1995) Characterization of chicken CD8-specific monoclonal antibodies recognizing novel epitopes. [Scand J Immunol. 42 \(1\): 171-4.](#)
2. Luhtala, M. *et al.* (1997) Polymorphism of chicken CD8-alpha, but not CD8-beta. [Immunogenetics. 46 \(5\): 396-401.](#)
3. Li, Z. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (2006) The use of flow cytometry to discriminate avian lymphocytes from contaminating thrombocytes. [Dev Comp Immunol. 30 \(9\): 843-50.](#)
10. Powell, F.L. *et al.* (2009) The turkey, compared to the chicken, fails to mount an effective early immune response to *Histomonas meleagridis* in the gut. [Parasite Immunol. 31 \(6\): 312-27.](#)
11. Katevuo, K. & Vainio, O. (1996) Thymocyte emigration in the chicken: an over-representation of CD4+ cells over CD8+ in the periphery. [Immunology. 89 \(3\): 419-23.](#)
12. Morimura, T. *et al.* (1995) Immunomodulation of peripheral T cells in chickens infected with Marek's disease virus: involvement in immunosuppression. [J Gen Virol. 76 \( Pt 12\): 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, CD8 $\alpha$  and CD28. [Dev Comp Immunol. 33 \(4\): 540-6.](#)
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.](#)
17. Arstila, T.P. *et al.* (1994)  $\gamma\delta$  and  $\alpha\beta$  T cells are equally susceptible to apoptosis. [Scand J Immunol. 40 \(2\): 209-15.](#)
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 [Poultry Science. Feb 23 \[Epub ahead of print\]](#)
20. Abd El-Hack, M. & Alagawany, M. (2015) Performance, egg quality, blood profile, immune

function, and antioxidant enzyme activities in laying hens fed diets with thyme powder [Journal of Animal and Feed Sciences. 24 \(2\): 127-33.](#)

21. 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 Appl 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.

---

**Shelf Life**

18 months from date of despatch.

---

**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

---

**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

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

'M310461:170925'

**Printed on 01 May 2018**

---

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)