Datasheet: MCA2164F

Description:	MOUSE ANTI CHICKEN CD4:FITC
Specificity:	CD4
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	2-35
Isotype:	IgG2b
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 - 1/10

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

Species Cross Reactivity

Reacts with: Turkey
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

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
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

Immunogen

Chicken embryonic thymocytes

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 CD4, clone 2-35** recognizes the chicken homologue of human CD4, a ~64 kDa cell surface protein expressed by thymocytes and a subset of T cells (Luhtala *et al.* 1993). Mouse anti Chicken CD4, clone 2-35 has been demonstrated to recognise turkey CD4 (Li *et al.* 1998).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Vainio, O. *et al.* (1989) Characterization of chicken CD4-expressing cells. Prog Clin Biol Res. 307: 45-56. 2. 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. 3. Koskinen, R. *et al.* (1999) Cloning and modeling of the first nonmammalian CD4. J Immunol. 162 (7): 4115-21. 4. Pavlova, S.P. *et al.* (2010) *In vitro* and *in vivo* characterization of glycoprotein C-deleted infectious laryngotracheitis virus. J Gen Virol. 91 (Pt 4): 847-57. 5. Luhtala, M. *et al.* (1993) Analysis of chicken CD4 by monoclonal antibodies indicates evolutionary conservation between avian and mammalian species. Hybridoma. 12: 633-46. 6. Rosa, A.C. *et al.* (2014) Isolation and molecular characterization of Brazilian turkey reovirus from immunosuppressed young poults. Arch Virol. 159 (6): 1453-7. 7. Blohm, U. *et al.* (2016) Immunological Competence of Different Domestic Chicken Breeds Against Avian Influenza Infection. Avian Dis. 60 (1 Suppl): 262-8. 8. 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] 9. 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. 10. Kannan, T.A. *et al.* (2017) Age Related Changes in T Cell Subsets in Thymus and Spleen of Layer Chicken (*Gallus domesticus*) Intl J Curr Microbiol App Sci. 6 (1): 15-9. 11. Sachan, S. *et al.* (2015) Adjuvant potential of resiquimod with inactivated Newcastle disease vaccine and its mechanism of action in chicken. Vaccine. 33 (36): 4526-32.
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. This product is photosensitive and should be protected from light. 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 IgG2b NEGATIVE CONTROL:FITC (MCA691F)

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

Europe
Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

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