

Datasheet: MCA2164PE BATCH NUMBER 167934

Description:	MOUSE ANTI CHICKEN CD4:RPE
Specificity:	CD4
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	2-35
Isotype:	lgG2b
Quantity:	100 TESTS

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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			Neat - 1/5	
	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. 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 - Iyophilized					
Reconstitution	Reconstitute with 1.0 ml distilled water					
Max Ex/Em	Fluorophore	Excitation M	ax (nm)	Emission Max (nm)		
	RPE 488nm laser	496		578		
Preparation	Purified IgG prepared supernatant	by affinity chr	omatogra	phy on Protein A from	n tissue culture	

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin 5% sucrose
Immunogen	Chicken embryonic thymocytes
RRID	AB_2075649
Fusion Partners	Lymph node cells from immunized 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 (<u>Luhtala et al. 1993</u>). Mouse anti Chicken CD4, clone 2-35 has been demonstrated to recognize turkey CD4 (<u>Li <i>et al.</i> 1998</u>).
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in $100µl$
References	 Vainio, O. <i>et al.</i> (1989) Characterization of chicken CD4-expressing cells. Prog Clin Biol Res. 307: 45-56. Luhtala, M. <i>et al.</i> (1993) Analysis of chicken CD4 by monoclonal antibodies indicates evolutionary conservation between avian and mammalian species. <u>Hybridoma. 12</u>: 633-46. Koskinen, R. <i>et al.</i> (1999) Cloning and modeling of the first nonmammalian CD4. J Immunol. 162 (7): 4115-21. 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. 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. Rosa, A.C. <i>et al.</i> (2014) Isolation and molecular characterization of Brazilian turkey reovirus from immunosuppressed young poults. Arch Virol. 159 (6): 1453-7. Sachan, S. <i>et al.</i> (2015) Adjuvant potential of resiguimod with inactivated Newcastle disease vaccine and its mechanism of action in chicken. Vaccine. 33 (36): 4526-32. Blohm, U. <i>et al.</i> (2017) Age Related Changes in T Cell Subsets in Thymus and Spleen of Layer Chicken (<i>Gallus domesticus</i>) Int J Curr Microbiol App Sci. 6 (1): 15-19. Röhe, I. <i>et al.</i> (2020) Immune Modulation and the Development of Fowl Typhoid: A Model of Human Disease? Pathogens. 9 (10): 843. Konieczka, P. <i>et al.</i> (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. Hohensee, L. <i>et al.</i> (2024) The role of PB1-F2 in adaptation of high pathogenicity avian influenza virus H7N7 in chickens. Vet Res. 55 (1): 5.

	14. Song, J. <i>et al.</i> (2022) GPR15-C10ORF99 functional pairing initiates colonic Treg homing in amniotes. <u>EMBO Rep. 23 (3): e53246.</u>					
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE.					
	This product should be stored undiluted. This product is photosensitive and should be protected from light. 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 #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA2164PE 20487					
Regulatory	For research purposes only					

Related Products

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL:RPE (MCA691PE)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-ra	id.com	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 'M429716:240416'

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