

Datasheet: MCA2240F

Description:	MOUSE ANTI CHICKEN CD41/CD61:FITC
Specificity:	CD41/CD61
Other names:	GP11b-IIIa
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	11C3
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 - 1/2

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		
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 A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		

Immunogen	Peripheral blood leukocytes from white leghorn chicken
RRID	AB_2128896
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the X63/A63-653 myeloma cell line
Specificity	<p>Mouse anti Chicken CD41/61, clone 11C3 recognizes chicken integrin CD41/61, also known as GPIIb-IIIa. CD41/61 is a heterodimeric cell surface protein, expressed on chicken thrombocytes and cells of the thrombocyte lineage. Avian thrombocytes are nucleated equivalents of mammalian platelets playing roles in coagulation and phagocytosis.</p> <p>Mouse anti Chicken CD41/61 clone 11C3 is reported to induce thrombocyte activation (Lacoste-Eleau et al. 1994).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 1. Horiuchi, H. <i>et al.</i> (2004) A monoclonal antibody against chicken thrombocytes reacts with the cells of thrombocyte lineage. J Vet Med Sci. 66 (3): 243-50. 2. Corbel, C. (2002) Expression of alphaVbeta3 integrin in the chick embryo aortic endothelium. Int J Dev Biol. 46 (6): 827-30. 3. Del Cacho, E. <i>et al.</i> (2008) Isolation of chicken follicular dendritic cells. J Immunol Methods. 334: 59-69. 4. Del Cacho, E. <i>et al.</i> (2009) Avian follicular and interdigitating dendritic cells: isolation and morphologic, phenotypic, and functional analyses. Vet Immunol Immunopathol. 129: 66-75. 5. Ody, C. <i>et al.</i> (1999) Glycoprotein IIb-IIIa is expressed on avian multilineage hematopoietic progenitor cells. Blood 93: 2898-906. 6. Chaussé, A.M. <i>et al.</i> (2011) Expression of Toll-like receptor 4 and downstream effectors in selected cecal cell subpopulations of chicks resistant or susceptible to <i>Salmonella</i> carrier state. Infect Immun. 79: 3445-54. 7. Balic, A. <i>et al.</i> (2014) Visualisation of chicken macrophages using transgenic reporter genes: insights into the development of the avian macrophage lineage. Development 141: 3255-65. 8. Meijerink, N. <i>et al.</i> (2020) Early Life Inoculation With Adult-Derived Microbiota Accelerates Maturation of Intestinal Microbiota and Enhances NK Cell Activation in Broiler Chickens. Front Vet Sci. 7: 584561. 9. Meijerink, N. <i>et al.</i> (2021) Analysis of chicken intestinal natural killer cells, a major IEL subset during embryonic and early life. Dev Comp Immunol. 114: 103857. 10. Meijerink, N. <i>et al.</i> (2021) Glucose Oligosaccharide and Long-Chain Glucomannan Feed Additives Induce Enhanced Activation of Intraepithelial NK Cells and Relative Abundance of Commensal Lactic Acid Bacteria in Broiler Chickens. Vet Sci. 8 (6): 110. 11. Härtle, S. <i>et al.</i> (2024) Delineation of chicken immune markers in the era of omics and multicolor flow cytometry Frontiers in Veterinary Science. 23 May [Epub ahead of print]. 12. Saint-Martin, V. <i>et al.</i> (2024) The gut microbiota and its metabolite butyrate shape metabolism and antiviral immunity along the gut-lung axis in the chicken. Commun Biol. 7 (1): 1185.

Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
Guarantee	12 months from date of despatch
Acknowledgements	This antibody is licensed from INRA-INSERM
Health And Safety Information	<p>Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2240F10041</p>
Regulatory	For research purposes only

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