Datasheet: MCA2240F

BATCH NUMBER 174204

Description:	MOUSE ANTI CHICKEN CD41/CD61:FITC
Specificity:	CD41/CD61
Other names:	GPIIb-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 Stabilisers

0.09% sodium azide (NaN_3)
1% bovine serum albumin

Approx. Protein

IgG concentration 0.1 mg/ml

Concentrations	
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	**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. Mouse anti Chicken CD41/61 clone 11C3 is reported to induce thrombocyte activation (Lacoste-Eleaume *et al.* 1994).
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in 100µl
References	1. Horiuchi, H. *et al.* (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. *et al.* (2008) Isolation of chicken follicular dendritic cells. J Immunol Methods. 334: 59-69. 4. Del Cacho, E. *et al.* (2009) Avian follicular and interdigitating dendritic cells: isolation and morphologic, phenotypic, and functional analyses. Vet Immunol Immunopathol. 129: 66-75. 5. Ody, C. *et al.* (1999) Glycoprotein IIb-IIIa is expressed on avian multilineage hematopoietic progenitor cells. Blood 93: 2898-906. 6. Chaussé, A.M. *et al.* (2011) Expression of Toll-like receptor 4 and downstream effectors in selected cecal cell subpopulations of chicks resistant or susceptible to *Salmonella* carrier state. Infect Immun. 79: 3445-54. 7. Balic, A. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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.
13. Moosavi, M. *et al.* (2025) Indications of trained innate immunity by *Escherichia coli* vaccination or chitin feed supplementation assessed during *Ascaridia galli* infection in chickens. Mol Immunol. 183: 246-258.
14. Freier, L. *et al.* (2025) Baseline immune profiles of local chicken breeds: linking biodiversity, animal health, and vaccination response. Poult Sci. 104 (10): 105565.

Storage	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. 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.
Guarantee	12 months from date of despatch
Acknowledgements	This antibody is licensed from INRA-INSERM
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2240F
Regulatory	For research purposes only

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M426039:231107'

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