

## Datasheet: MCA5770

Description:	MOUSE ANTI CHICKEN MONOCYTES/MACROPHAGES
Specificity:	MONOCYTES/MACROPHAGES
Other names:	MRC1L-B
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	KUL01
Isotype:	lgG1
Quantity:	0.25 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 <u>www.bio-rad-antibodies.com/protocols</u>.

		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry				
	Immunohistology - Frozen				
	Immunohistology - Paraffin (1)	•			
	ELISA			•	
	Immunoprecipitation			•	
	Western Blotting			•	
	Functional Assays			•	
	necessarily exclude its use in such procedures. Suggested working dilutions are given a guide only. It is recommended that the user titrates the product for use in their ow system using appropriate negative/positive controls. (1) <b>This product requires protein digestion pre-treatment of paraffin sections e trypsin or pronase.</b>				
Target Species	Chicken				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant				
Buffer Solution	Borate buffered saline.				

Preservative Stabilisers	<0.1% Sodium Azide (NaN <sub>3</sub> )
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Chicken peripheral blood mononuclear leukocytes (PBML).
External Database Links	UniProt: M1XGZ4 Related reagents
RRID	AB_10841619
Fusion Partners	Spleen cells from Balb/c mice immunized with chicken PBML were fused with cells from the Sp2/0-Ag14 mouse myeloma cell line.
Specificity	Mouse anti Chicken Monocytes/Macrophages, clone KUL01 recognises chicken monocytes and macrophages. Mouse anti Chicken monocytes/ macrophages, clone KUL01 also detects interdigitating cells and activated microglia but does not recognise Bu1+ve B-cells or CD3 +ve T-lymphocytes. Mouse anti Chicken monocytes/ macrophages, clone KUL01 has subsequently been demonstrated to recognize chicken MRC1L-B, a homologue of the mammalian mannose receptor MRC1 (Staines <i>et al.</i> 2014). Five papalogous genes have been identified in the chicken genome, named MRC1L-A-E. Mouse anti Chicken monocytes / macrophages
	antibody only recognizes the MRC1L-B gene product.( <u>Staines <i>et al.</i> 2014</u> ).
References	<ol> <li>Wigley, P. <i>et al.</i> (2001) Salmonella enterica serovar Pullorum persists in splenic macrophages and in the reproductive tract during persistent, disease-free carriage in chickens. <u>Infect Immun. 69 (12): 7873-9.</u></li> <li>Balic, A. <i>et al.</i> (2014) Visualisation of chicken macrophages using transgenic reporter genes: insights into the development of the avian macrophage lineage. <u>Development. 141: 3255-65.</u></li> <li>Garcia-Morales, C. <i>et al.</i> (2014) Production and characterisation of a monoclonal antibody that recognises the chicken CSF1 receptor and confirms that expression is restricted to macrophage-lineage cells. <u>Dev Comp Immunol. 42 (2): 278-85.</u></li> <li>Guabiraba, R. <i>et al.</i> (2017) Unveiling the participation of avian kinin ornithokinin and its receptors in the chicken inflammatory response. <u>Vet Immunol Immunopathol. 188: 34-47.</u></li> <li>Tomal, F. <i>et al.</i> (2023) Microbiota promotes recruitment and pro-inflammatory response of caecal macrophages during <i>E. tenella</i> infection. <u>Gut Pathog. 15 (1): 65.</u></li> <li>Alber, A. <i>et al.</i> (2019) Dose-dependent differential resistance of inbred chicken lines to avian pathogenic <i>Escherichia coli</i> challenge. <u>Avian Pathol. 48 (2): 157-67.</u></li> <li>Farsang, A. <i>et al.</i> (2019) Avian coronavirus infection induces mannose-binding lectin production in dendritic cell precursors of chicken lymphoid organs. <u>Acta Vet Hung. 67 (2): 183-96.</u></li> <li>Bryson, K.J. <i>et al.</i> (2020) Precision cut lung slices: a novel versatile tool to examine host-pathogen interaction in the chicken lung. <u>Vet Res. 51 (1): 2.</u></li> </ol>

	9. Saint-Martin, V. <i>et al.</i> (2024) The gut microbiota and its meta metabolism and antiviral immunity along the gut-lung axis in th (1): 1185.	abolite butyrate shape e chicken. <u>Commun Biol. 7</u>
Storage	This product is shipped at ambient temperature. It is recommen- 20°C on receipt. When thawed, aliquot the sample as needed short term use (up to 4 weeks) and store the remaining aliquot Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended.	nded to aliquot and store at . Keep aliquots at 2-8°C for s at -20°C. antibody. Storage in
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10077 available at: https://www.bio-rad-antibodies.com/SDS/MCA5770 10077	
Regulatory	For research purposes only	

# **Related Products**

### **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12...)RPEGoat Anti Mouse IgG (H/L) (STAR117...)FITC, HRPRabbit Anti Mouse IgG (STAR9...)FITC

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 Europe

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Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 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 'M392053:211020'

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