

Datasheet: MCA5770

BATCH NUMBER 166899

Description:	MOUSE ANTI CHICKEN MONOCYTES/MACROPHAGES
Specificity:	MONOCYTES/MACROPHAGES
Other names:	MRC1L-B
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	KUL01
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

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.

(1) This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.

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 ₃)
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	<p>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.</p> <p>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 et al. 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. (Staines et al. 2014).</p>
References	<ol style="list-style-type: none"> 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. Infect Immun. 69 (12): 7873-9. 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. 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. Dev Comp Immunol. 42 (2): 278-85. Guabiraba, R. <i>et al.</i> (2017) Unveiling the participation of avian kinin ornithokinin and its receptors in the chicken inflammatory response. Vet Immunol Immunopathol. 188: 34-47. Tomal, F. <i>et al.</i> (2023) Microbiota promotes recruitment and pro-inflammatory response of caecal macrophages during <i>E. tenella</i> infection. Gut Pathog. 15 (1): 65. Alber, A. <i>et al.</i> (2019) Dose-dependent differential resistance of inbred chicken lines to avian pathogenic <i>Escherichia coli</i> challenge. Avian Pathol. 48 (2): 157-67. Farsang, A. <i>et al.</i> (2019) Avian coronavirus infection induces mannose-binding lectin production in dendritic cell precursors of chicken lymphoid organs. Acta Vet Hung. 67 (2): 183-96. 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. Vet Res. 51 (1): 2.

9. 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.](#)

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.</p>
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...) [RPE](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

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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