

Datasheet: MCA5770

**BATCH NUMBER 173045**

<b>Description:</b>	MOUSE ANTI CHICKEN MONOCYTES/MACROPHAGES
<b>Specificity:</b>	MONOCYTES/MACROPHAGES
<b>Other names:</b>	MRC1L-B
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	KUL01
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Chicken
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant
<b>Buffer Solution</b>	Borate buffered saline.

<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml
<b>Immunogen</b>	Chicken peripheral blood mononuclear leukocytes (PBML).
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">M1XGZ4</a> <a href="#">Related reagents</a>
<b>RRID</b>	AB_10841619
<b>Fusion Partners</b>	Spleen cells from Balb/c mice immunized with chicken PBML were fused with cells from the Sp2/0-Ag14 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Chicken Monocytes/Macrophages, clone KUL01</b> 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 (<a href="#">Staines et al. 2014</a>). 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. (<a href="#">Staines et al. 2014</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. 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. <a href="#">Infect Immun. 69 (12): 7873-9.</a></li> <li>2. Balic, A. <i>et al.</i> (2014) Visualisation of chicken macrophages using transgenic reporter genes: insights into the development of the avian macrophage lineage. <a href="#">Development. 141: 3255-65.</a></li> <li>3. 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. <a href="#">Dev Comp Immunol. 42 (2): 278-85.</a></li> <li>4. Guabiraba, R. <i>et al.</i> (2017) Unveiling the participation of avian kinin ornithokinin and its receptors in the chicken inflammatory response. <a href="#">Vet Immunol Immunopathol. 188: 34-47.</a></li> <li>5. Tomal, F. <i>et al.</i> (2023) Microbiota promotes recruitment and pro-inflammatory response of caecal macrophages during <i>E. tenella</i> infection. <a href="#">Gut Pathog. 15 (1): 65.</a></li> <li>6. Alber, A. <i>et al.</i> (2019) Dose-dependent differential resistance of inbred chicken lines to avian pathogenic <i>Escherichia coli</i> challenge. <a href="#">Avian Pathol. 48 (2): 157-67.</a></li> <li>7. Farsang, A. <i>et al.</i> (2019) Avian coronavirus infection induces mannose-binding lectin production in dendritic cell precursors of chicken lymphoid organs. <a href="#">Acta Vet Hung. 67 (2): 183-96.</a></li> <li>8. 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. <a href="#">Vet Res. 51 (1): 2.</a></li> </ol>

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.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10077 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5770>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)  
'M392053:211020'

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