

## Datasheet: MCA5925GA

**BATCH NUMBER 164554**

<b>Description:</b>	MOUSE ANTI CHICKEN CD25
<b>Specificity:</b>	CD25
<b>Other names:</b>	IL-2R ALPHA CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AV142
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Chicken
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Chicken CD25/hulg fusion protein.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q90WJ4</a> <a href="#">Related reagents</a>
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the Sp2/0 Ag14 Myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Chicken CD25 monoclonal antibody, clone AV142</b> recognizes CD25, the chicken IL-2 Receptor alpha chain (IL-2R<math>\alpha</math>) which has been identified as the chicken homologue of human CD25 and is cited as ChCD25 in published literature. Chicken IL-2R<math>\alpha</math> is a cell surface antigen expressed by activated T-lymphocytes, monocytes/macrophages and thrombocytes. CD4+ve/CD25+ve and CD8+ve/CD25+ve cells are up-regulated following infection with avian influenza virus (H9N2) and may therefore have an important role in the immune response to avian influenza virus infection . Chicken IL-2R<math>\alpha</math> is the low affinity receptor for Interleukin-2.</p> <p>Mouse anti Chicken CD25 monoclonal antibody, clone AV142 is one of a range of antibodies that have been developed by the Roslin Institute as part of the Avian immunology toolbox project. In addition to this anti chicken CD25 antibody, other antibodies to chicken CD antigens and cytokines from this project are now available from Bio-Rad.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul
<b>ELISA</b>	This product is suitable for use in direct ELISA applications.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Neulen, M.L. <i>et al.</i> (2015) Identification of novel chicken CD4<sup>+</sup> CD3<sup>-</sup> blood population with NK cell like features. <a href="#">Dev Comp Immunol. 49 (1): 72-8.</a></li> <li>2. Geng, Y. <i>et al.</i> (2018) Dietary vitamin D(3) supplementation protects laying hens against lipopolysaccharide-induced immunological stress. <a href="#">Nutr Metab (Lond). 15: 58.</a></li> <li>3. Hohensee, L. <i>et al.</i> (2024) The role of PB1-F2 in adaptation of high pathogenicity avian influenza virus H7N7 in chickens. <a href="#">Vet Res. 55 (1): 5.</a></li> <li>4. Häätle, S. <i>et al.</i> (2024) Delineation of chicken immune markers in the era of omics and multicolor flow cytometry <a href="#">Frontiers in Veterinary Science. 11 [Epub ahead of print].</a></li> </ol>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch

**Acknowledgements** This reagent was produced by the WellcomeTrust-funded National Avian Resource Facility (Grant number WT099164MA).

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5925GA>  
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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...) [Alk. Phos.](#), [DyLight®405](#), [DyLight®488](#),  
[DyLight®800](#), [Purified](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

### Recommended Useful Reagents

[HUMAN ANTI CHICKEN CD25 \(HCA173\)](#)

[MOUSE ANTI CHICKEN CD4:RPE \(MCA2164PE\)](#)

[MOUSE ANTI CHICKEN CD4:FITC \(MCA2164F\)](#)

[MOUSE ANTI CHICKEN CD8 ALPHA:FITC \(MCA2166F\)](#)

[MOUSE ANTI CHICKEN CD8 ALPHA:RPE \(MCA2166PE\)](#)

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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)

'M389624:210806'

Printed on 28 Jun 2024

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