Datasheet: MCA5925GA

BATCH NUMBER 169900

Description:	MOUSE ANTI CHICKEN CD25
Specificity:	CD25
Other names:	IL-2R ALPHA CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AV142
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	▪			
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.

Target Species	Chicken
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN_3)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Chicken CD25/huIg fusion protein.
External Database Links	**UniProt:** Q90WJ4 Related reagents
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the Sp2/0 Ag14 Myeloma cell line.
Specificity	**Mouse anti Chicken CD25 monoclonal antibody, clone AV142** recognizes CD25, the chicken IL-2 Receptor alpha chain (IL-2Rα) which has been identified as the chicken homologue of human CD25 and is cited as ChCD25 in published literature. Chicken IL-2Rα 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-2Rα is the low affinity receptor for Interleukin-2. 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 immulogy 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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul
ELISA	This product is suitable for use in direct ELISA applications.
References	1. Neulen, M.L. *et al.* (2015) Identification of novel chicken $CD4^+$ $CD3^-$ blood population with NK cell like features. Dev Comp Immunol. 49 (1): 72-8. 2. Geng, Y. *et al.* (2018) Dietary vitamin D(3) supplementation protects laying hens against lipopolysaccharide-induced immunological stress. Nutr Metab (Lond). 15: 58. 3. Hohensee, L. *et al.* (2024) The role of PB1-F2 in adaptation of high pathogenicity avian influenza virus H7N7 in chickens. Vet Res. 55 (1): 5. 4. Häätle, S. *et al.* (2024) Delineation of chicken immune markers in the era of omics and multicolor flow cytometry Frontiers in Veterinary Science. 11 [Epub ahead of print]. 5. 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. 6. 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.
Guarantee	12 months from date of despatch
Acknowledgements	This reagent was produced by the WellcomeTrust-funded National Avian Resource Facility (Grant number WT099164MA).
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5925GA
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®405, DyLight®488, DyLight®800, FITC, HRP, Purified

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)

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
'M389624:210806'

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