

Datasheet: MCA1473

BATCH NUMBER 173708

Description:	MOUSE ANTI CHICKEN CD3
Specificity:	CD3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CT-3
Isotype:	IgG1
Quantity:	0.5 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	▪			1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

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.

Target Species	Chicken
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared from ascites
Buffer Solution	Borate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen	Chicken thymocytes and Ig -ve peripheral blood mononuclear cells.
External Database Links	UniProt: Q98910 Related reagents Entrez Gene: 396062 CD3E Related reagents
RRID	AB_321244
Fusion Partners	Lymph node cells from immunized Balb/c mice were fused with cells from the mouse P3-X63Ag8.653 myeloma cell line.
Specificity	Mouse anti Chicken CD3, clone CT-3 recognizes the chicken CD3 cell surface antigen expressed by T cells (Chen et al. 1986). The antibody also co-precipitates a ~90 kDa heterodimer from digitonin solubilised T cell lysates, which can be reduced to two polypeptides of ~40 kDa and ~50 kDa. In the chicken, CD3 is expressed by approximately 30% of thymocytes, 70% of peripheral blood mononuclear cells, but <1% of cells in the bursa and bone marrow.
Flow Cytometry	Use 50µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	1. Mukamoto, M. & Kodama, H. (2000) Regulation of early chicken thymocyte proliferation by transforming growth factor-beta from thymic stromal cells and thymocytes. Vet Immunol Immunopathol. 77 (1-2): 121-32. 2. Chaussé, A.M. <i>et al.</i> (2011) Expression of toll-like receptor 4 and downstream effectors in selected cecal cell subpopulations of chicks resistant or susceptible to salmonella carrier state. Infect Immun. 79: 3445-54. 3. 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. 4. Tang, Y. <i>et al.</i> (2020) Immune Modulation and the Development of Fowl Typhoid: A Model of Human Disease? Pathogens. 9(10):843. 5. Alber, A. <i>et al.</i> (2019) Avian Pathogenic Escherichia coli (APEC) Strain-Dependent Immunomodulation of Respiratory Granulocytes and Mononuclear Phagocytes in CSF1R-Reporter Transgenic Chickens. Front Immunol. 10: 3055. 6. Härtle, S. <i>et al.</i> (2024) Delineation of chicken immune markers in the era of omics and multicolor flow cytometry Frontiers in Veterinary Science. 23 May [Epub ahead of print].
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	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10123 available at: https://www.bio-rad-antibodies.com/SDS/MCA1473
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	FITC

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
'M409799:221021'

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