

## Datasheet: MCA1473

**BATCH NUMBER 167845**

<b>Description:</b>	MOUSE ANTI CHICKEN CD3
<b>Specificity:</b>	CD3
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CT-3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

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

<b>Immunogen</b>	Chicken thymocytes and Ig -ve peripheral blood mononuclear cells.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q98910</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">396062</a>    CD3E    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_321244
<b>Fusion Partners</b>	Lymph node cells from immunized Balb/c mice were fused with cells from the mouse P3-X63Ag8.653 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Chicken CD3, clone CT-3</b> recognizes the chicken CD3 cell surface antigen expressed by T cells (<a href="#">Chen et al. 1986</a>). 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.</p> <p>In the chicken, CD3 is expressed by approximately 30% of thymocytes, 70% of peripheral blood mononuclear cells, but &lt;1% of cells in the bursa and bone marrow.</p>
<b>Flow Cytometry</b>	Use 50µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>1. Mukamoto, M. &amp; Kodama, H. (2000) Regulation of early chicken thymocyte proliferation by transforming growth factor-beta from thymic stromal cells and thymocytes. <a href="#">Vet Immunol Immunopathol. 77 (1-2): 121-32.</a></li> <li>2. Chaussé, A.M. et al. (2011) Expression of toll-like receptor 4 and downstream effectors in selected cecal cell subpopulations of chicks resistant or susceptible to salmonella carrier state. <a href="#">Infect Immun. 79: 3445-54.</a></li> <li>3. Balic, A. et al. (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>4. Tang, Y. et al. (2020) Immune Modulation and the Development of Fowl Typhoid: A Model of Human Disease? <a href="#">Pathogens. 9(10):843.</a></li> <li>5. Alber, A. et al. (2019) Avian Pathogenic Escherichia coli (APEC) Strain-Dependent Immunomodulation of Respiratory Granulocytes and Mononuclear Phagocytes in CSF1R-Reporter Transgenic Chickens. <a href="#">Front Immunol. 10: 3055.</a></li> <li>6. Härtle, S. et al. (2024) Delineation of chicken immune markers in the era of omics and multicolor flow cytometry <a href="#">Frontiers in Veterinary Science. 23 May [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>

**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.

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**Health And Safety Information**                      Material Safety Datasheet documentation #10123 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1473>  
10123

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

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

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

Rabbit Anti Mouse IgG (STAR13...)                      [HRP](#)

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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)

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