

Datasheet: MCA2479

**BATCH NUMBER 172067**

<b>Description:</b>	MOUSE ANTI DUCK CD8 ALPHA
<b>Specificity:</b>	CD8 ALPHA
<b>Other names:</b>	T-cell surface glycoprotein CD8 alpha chain
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	Du CD8-1
<b>Isotype:</b>	IgG2b
<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	▪			1 - 10 ug/ml
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>	Duck
<b>Species Cross Reactivity</b>	Does not react with:Chicken
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from ascites
<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 0.5 mg/ml
<b>Immunogen</b>	293T cells expressing Pekin Duck CD8 alpha.
<b>RRID</b>	AB_609604
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the SP2/0 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Duck CD8 alpha antibody, clone Du CD8-1</b> recognizes Pekin duck CD8 alpha (CD8a). CD8a is expressed by thymocytes, splenocytes, peripheral lymphoid cells and the vast majority of bursal cells.</p> <p>Most avian immunity research has been carried out on chickens and relatively little is known about the immune system of ducks, though there is a resemblance between the main lymphoid organs: the spleen, thymus and bursa of Fabricius. At the cellular level, like mammalian T cells, duck lymphocytes are responsive to phytohaemagglutinin.</p> <p>Double-staining with clone Du CD8-1 and <a href="#">MCA2480</a> Mouse anti Duck IgY light chain clone 14A3 revealed the presence of a CD8<sup>high</sup>/14A3<sup>-</sup> cytotoxic T cell population and a CD8<sup>low</sup>/14A3<sup>+</sup> B cell population in duck spleen and also revealed a high percentage of CD8<sup>+</sup>/14A3<sup>+</sup> cells in duck bursa (<a href="#">Kothlow et al. 1985</a>). Mouse anti Duck CD8 alpha antibody, clone Du CD8-1 has been shown to not react with Mallard (<i>Anas platyrhynchos</i>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Yu, X. <i>et al.</i> (2012) Attenuated <i>Salmonella typhimurium</i> delivering DNA vaccine encoding duck enteritis virus UL24 induced systemic and mucosal immune responses and conferred good protection against challenge. <a href="#">Vet Res. 43: 56.</a></li> <li>2. Lian, B. <i>et al.</i> (2011) Induction of immune responses in ducks with a DNA vaccine encoding duck plague virus glycoprotein C. <a href="#">Virologia J. 8: 214.</a></li> <li>3. Chen, S. <i>et al.</i> (2015) Age-related development and tissue distribution of T cell markers (CD4 and CD8a) in Chinese goose. <a href="#">Immunobiology. 220 (6): 753-61.</a></li> <li>4. Chen, S. <i>et al.</i> (2015) Immunobiological activity and antiviral regulation efforts of Chinese goose (<i>Anser cygnoides</i>) CD8α during NGVEV and GPV infection. <a href="#">Poult Sci. 94 (1): 17-24.</a></li> <li>5. Chen, S. <i>et al.</i> (2016) Immune-Related Gene Expression Patterns in GPV- or H9N2-Infected Goose Spleens. <a href="#">Int J Mol Sci. 17(12):1990.</a></li> <li>6. Cornelissen, J.B. <i>et al.</i> (2013) Differences in highly pathogenic avian influenza viral pathogenesis and associated early inflammatory response in chickens and ducks. <a href="#">Avian Pathol. 42 (4): 347-64.</a></li> <li>7. Wu, Y. <i>et al.</i> (2019) Changes in the small intestine mucosal immune barrier in Muscovy ducklings infected with Muscovy duck reovirus <a href="#">Veterinary Microbiology. 233: 85-92.</a></li> <li>8. Apinda, N. <i>et al.</i> (2022) Simultaneous Protective Immune Responses of Ducks against</li> </ol>

Duck Plague and Fowl Cholera by Recombinant Duck Enteritis Virus Vector Expressing Pasteurella multocida OmpH Gene. [Vaccines \(Basel\). 10 \(8\): 1358.](#)

9. Jax, E. *et al.* (2023) Evaluating Effects of AIV Infection Status on Ducks Using a Flow Cytometry-Based Differential Blood Count. [Microbiol Spectr. 11 \(4\): e0435122.](#)

10. Dandapat, S. *et al.* (2024) Development and evaluation of a chicken embryo fibroblast cell culture based live attenuated Indian strain duck plague vaccine. [Vet Q. 44 \(1\): 1-12.](#)

11. Huang, J. *et al.* (2024) Duck CD40L as an adjuvant enhances systemic immune responses of avian flavivirus DNA vaccine. [NPJ Vaccines. 9 \(1\): 135.](#)

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**Further Reading** 1. Higgins, D.A. & Teoh, C.S. (1988) Duck lymphocytes. II. Culture conditions for optimum transformation response to phytohaemagglutinin. [J Immunol Methods. 106 \(1\): 135-45.](#)

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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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2479>

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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](#)

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

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'M389430:210806'

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