

Datasheet: MCA2479

**BATCH NUMBER 180112**

<b>Description:</b>	MOUSE ANTI DUCK CD8 ALPHA
<b>Specificity:</b>	CD8 ALPHA
<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>	0.09% Sodium Azide

<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 shown to be expressed by thymocytes, splenocytes, peripheral lymphoid cells and the vast majority of bursal cells.</p> <p>Since the majority of avian immune studies have been carried out on chickens, 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, studies have shown that like mammalian T cells, duck lymphocytes are responsive to phytohaemagglutinin (PHA).</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. Kothlow, S. <i>et al.</i> (2005) Characterization of duck leucocytes by monoclonal antibodies. <a href="#">Dev Comp Immunol. 29 (8): 733-48.</a></li> <li>2. Yu, X. <i>et al.</i> (2012) Attenuated Salmonella typhimurium 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>3. 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="#">Virology J. 8: 214.</a></li> <li>4. 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>5. 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>6. 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): .</a></li> <li>7. 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>8. 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. [Epub ahead of print].</a></li> </ol>

<b>Further Reading</b>	1. Higgins, D.A. & Teoh, C.S. (1988) Duck lymphocytes. II. Culture conditions for optimum transformation response to phytohaemagglutinin. <a href="#">J Immunol Methods. 106 (1): 135-45.</a>
<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2479">https://www.bio-rad-antibodies.com/SDS/MCA2479</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

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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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