

## Datasheet: MCA2479

<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>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. 43: 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>	<ol style="list-style-type: none"><li>1. Higgins, D.A. &amp; 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></li></ol>
------------------------	---

---

<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
----------------	--

---

<b>Guarantee</b>	12 months from date of despatch
------------------	---------------------------------

---

**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

---

**Regulatory** For research purposes only

---

## Related Products

### Recommended Secondary Antibodies

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

'M367020:200529'

**Printed on 11 Aug 2020**

---

© 2020 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)