

## Datasheet: MCA2480

<b>Description:</b>	MOUSE ANTI DUCK IgY LIGHT CHAIN
<b>Specificity:</b>	IgY LIGHT CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	14A3
<b>Isotype:</b>	IgG1
<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	▪			
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

Duck

### Species Cross Reactivity

Reacts with: Goose  
Does not react with: Chicken

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

<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 1.0mg/ml
<b>Immunogen</b>	Purified Pekin duck yolk IgY.
<b>RRID</b>	AB_609820
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells of the SP2/0 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Duck IgY Light Chain antibody, clone 14A3</b> recognizes the light chain of duck immunoglobulin, expressed strongly on bursal cells and weakly on splenocytes and peripheral lymphoid cells, but not expressed by thymocytes.</p> <p>Double-staining with clone 14A3 and duck CD8 alpha clone Du CD8-1 (product code <a href="#">MCA2479</a>), reveals 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 reveals a high percentage of CD8<sup>+</sup>/14A3<sup>+</sup> cells in duck bursa (<a href="#">Kothlow et al. 2005</a>). The recognition of B cells by 14A3 using chBAFF-Flag (B cell activating factor).</p> <p>Mouse anti Duck IgY Light Chain antibody, clone 14A3 recognizes IgA in Pekin duck bile and can be used as a marker to identify B cells in both Pekin and Muscovy duck and geese.</p> <p>Mouse anti Duck IgY Light Chain antibody, clone 14A3 detects a band of approximately 25 kDa in duck cell lysates in Western blotting.</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. Kothlow, S. <i>et al.</i> (2008) Evaluation of Newcastle disease virus immunoassays for waterfowl using a monoclonal antibody specific for the duck immunoglobulin light chain. <a href="#">Avian Pathol. 37:323-8</a></li> </ol>
<b>Further Reading</b>	1. Schneider, K <i>et al.</i> (2004) Chicken BAFF--a highly conserved cytokine that mediates B cell survival. <a href="#">Int Immunol. 16 (1): 139-48.</a>
<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</p>

frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2480">https://www.bio-rad-antibodies.com/SDS/MCA2480</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

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

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

**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)

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)  
'M389431:210806'

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