

Datasheet: MCA2480

Description:	MOUSE ANTI DUCK IgY LIGHT CHAIN
Specificity:	IgY LIGHT CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	14A3
Isotype:	IgG1
Quantity:	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.

	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

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Purified Pekin duck yolk IgY.
RRID	AB_609820
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the SP2/0 mouse myeloma cell line.
Specificity	<p>Mouse anti Duck IgY Light Chain antibody, clone 14A3 recognizes the light chain of duck immunoglobulin, shown to be 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 MCA2479), revealed the presence of a CD8^{high}/14A3⁻ cytotoxic T cell population and a CD8^{low}/14A3⁺ B cell population in duck spleen and also revealed a high percentage of CD8⁺/14A3⁺ cells in duck bursa (Kothlow et al. 2005). The recognition of B cells by 14A3 was confirmed using a recently developed Flag-tagged chicken B cell marker, known as 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 studies.</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>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Kothlow, S. <i>et al.</i> (2005) Characterization of duck leucocytes by monoclonal antibodies. Dev Comp Immunol. 29 (8): 733-48. 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. Avian Pathol. 37:323-8
Further Reading	1. Schneider, K <i>.et al.</i> (2004) Chicken BAFF--a highly conserved cytokine that mediates B cell survival. Int Immunol. 16 (1): 139-48.
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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	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](#)

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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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