

Datasheet: MCA2480

BATCH NUMBER 171585

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| 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.

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| Target Species | Duck |
| Species Cross Reactivity | <p>Reacts with: Goose</p> <p>Does not react with: Chicken</p> <p>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.</p> |
| 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 (NaN₃)

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen Purified Pekin duck yolk IgY.

RRID AB_609820

Fusion Partners Spleen cells from immunized Balb/c mice were fused with cells of the SP2/0 mouse myeloma cell line.

Specificity **Mouse anti Duck IgY Light Chain antibody, clone 14A3** 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.

Double-staining with clone 14A3 and duck CD8 alpha clone Du CD8-1 (product code [MCA2479](#)), reveals the presence of a CD8^{high}/14A3⁻ cytotoxic T cell population and a CD8^{low}/14A3⁺ B cell population in duck spleen and also reveals a high percentage of CD8⁺/14A3⁺ cells in duck bursa ([Kothlow et al. 2005](#)). The recognition of B cells by 14A3 using chBAFF-Flag (B cell activating factor).

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.

Mouse anti Duck IgY Light Chain antibody, clone 14A3 detects a band of approximately 25 kDa in duck cell lysates in Western blotting.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Kothlow, S. *et al.* (2005) Characterization of duck leucocytes by monoclonal antibodies. [Dev Comp Immunol. 29 \(8\): 733-48.](#)
2. Kothlow, S. *et al.* (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 *et al.* (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.

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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/MCA2480 |
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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](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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