

## Datasheet: MCA2480

**BATCH NUMBER 149947**

|                      |                                 |
|----------------------|---------------------------------|
| <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

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**Buffer Solution** Phosphate buffered saline

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**Preservative Stabilisers** 0.01% Sodium Azide

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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**Immunogen** Purified Pekin duck yolk IgY.

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**RRID** AB\_609820

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

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**Specificity** **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.

Double-staining with clone 14A3 and duck CD8 alpha clone Du CD8-1 (product code [MCA2479](#)), 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 ([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).

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.

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

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**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](#)

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**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.](#)

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**Storage** 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.

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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:<br><a href="https://www.bio-rad-antibodies.com/SDS/MCA2480">https://www.bio-rad-antibodies.com/SDS/MCA2480</a><br>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

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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)  
'M373289:200908'

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