

## Datasheet: MCA2481

<b>Description:</b>	MOUSE ANTI DUCK IgY HEAVY CHAIN
<b>Specificity:</b>	IgY HEAVY CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	16C7
<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	▪			non-reducing

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 0.5mg/ml
<b>Immunogen</b>	Purified Pekin duck yolk IgY.
<b>RRID</b>	AB_609819
<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 IgY antibody, clone 16C7</b> recognises both the IgY and IgY(-Fc) Pekin duck heavy chain molecules.</p> <p>The duck IgY molecule, consisting of two heavy (H) and two light (L) chains, has been categorized as the 7.8S full-length IgY form and the 5.7S truncated IgY(-Fc) form. The IgY(-Fc) molecule possesses the H chain Cu1 and Cu2 constant domains, but is lacking the Cu3 and Cu4 constant region terminal domains, all four of which are present in the full-length IgY molecule. Thus the structure of the IgY(-Fc) molecule resembles that of a F(ab')<sub>2</sub> fragment of IgY.</p> <p>Mouse anti Duck IgY antibody, clone 16C7 also detects IgY heavy chain in Mallard ducks, goose and swan.</p> <p>Mouse anti Duck IgY antibody, clone 16C7 detects bands of approximately 118 kDa and 178-200 kDa in Pekin duck cell lysates under non-reducing conditions in Western blotting.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Magor, K.E. <i>et al.</i> (1994) One gene encodes the heavy chains for three different forms of IgY in the duck. <a href="#">J Immunol. 153 (12): 5549-55.</a></li> <li>2. Higgins, D.A. &amp; Warr, G.W. (1993) Duck immunoglobulins: structure, functions and molecular genetics. <a href="#">Avian Pathol. 22 (2): 211-36.</a></li> </ol>
<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 frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2481">https://www.bio-rad-antibodies.com/SDS/MCA2481</a>

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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://bio-rad-antibodies.com/datasheets)

'M389432:210806'

**Printed on 25 Mar 2023**

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