

Datasheet: MCA2481

BATCH NUMBER 151695

| | |
|----------------------|---------------------------------|
| Description: | MOUSE ANTI DUCK IgY HEAVY CHAIN |
| Specificity: | IgY HEAVY CHAIN |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | 16C7 |
| 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 | ▪ | | | 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

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations IgG concentration 0.5mg/ml

Immunogen Purified Pekin duck yolk IgY.

RRID AB_609819

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

Specificity **Mouse anti Duck IgY antibody, clone 16C7** recognises both the IgY and IgY(-Fc) Pekin duck heavy chain molecules.

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')₂ fragment of IgY.

Mouse anti Duck IgY antibody, clone 16C7 also detects IgY heavy chain in Mallard ducks, goose and swan.

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.

Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

Further Reading

1. Magor, K.E. *et al.* (1994) One gene encodes the heavy chains for three different forms of IgY in the duck. [J Immunol. 153 \(12\): 5549-55.](#)
2. Higgins, D.A. & Warr, G.W. (1993) Duck immunoglobulins: structure, functions and molecular genetics. [Avian Pathol. 22 \(2\): 211-36.](#)

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.

Guarantee 12 months from date of despatch

Health And Safety Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/MCA2481>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Rabbit Anti Mouse IgG (STAR13...) [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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