Datasheet: MCA2481

BATCH NUMBER 171201

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	<0.1% Sodium Azide (NaN_3)
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 $1x10^6$ 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	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

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2481
Regulatory	For research purposes only

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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