Datasheet: MCA403

BATCH NUMBER 168388

Description:	MOUSE ANTI INFLUENZA B NUCLEOPROTEIN
Specificity:	INFLUENZA B NUCLEOPROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	B017 (B35G)
Isotype:	IgG2b
Quantity:	1 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	▪			
Immunofluorescence	▪			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Viral
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN_3)
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations	
Immunogen	Influenza B/Lee/40 and B/Singapore/-222/79 viruses.
RRID	AB_2298473
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the P3 Ag8.653 mouse myeloma cell line.
Specificity	**Mouse anti Influenza B Nucleoprotein antibody, clone B017** recognizes an epitope within the nucleoprotein of influenza B virus. The influenza viruses, classified as type A, B and C, are members of the *Orthomyxoviridae* family which differ in their epidemiology and host ranges and lack serological cross-reactivity of their internal components, especially their matrix proteins and nucleoprotein. Influenza B virus is a slow-mutating single stranded RNA virus subject to antigenic drift which, although enough to prevent lasting immunity, prevents influenza B from causing pandemics. Mouse anti Influenza B Nucleoprotein antibody, clone B017 can be used in influenza B IFA typing in conjunction with MCA2717 (clone B114).
References	1. Zhirnov, O.P. *et al.* (1999) Caspase-dependent N-terminal cleavage of influenza virus nucleocapsid protein in infected cells. J Virol. 73 (12): 10158-63. 2. Ehrhardt, C. *et al.* (2007) Activation of phosphatidylinositol 3-kinase signaling by the nonstructural NS1 protein is not conserved among type A and B influenza viruses. J Virol. 81 (21): 12097-100. 3. Dauber, B. *et al.* (2009) Influenza B virus ribonucleoprotein is a potent activator of the antiviral kinase PKR. PLoS Pathog. 5 (6): e1000473. 4. Goujon, C. & Malim, M.H. (2010) Characterization of the alpha interferon-induced postentry block to HIV-1 infection in primary human macrophages and T cells. J Virol. 84 (18): 9254-66. 5. Lesch, M. *et al.* (2019) RNAi-based small molecule repositioning reveals clinically approved urea-based kinase inhibitors as broadly active antivirals PLoS Pathog. 15(3):e1007601.
Further Reading	1. Walls, H.H. *et al.* (1986) Characterization and evaluation of monoclonal antibodies developed for typing influenza A and influenza B viruses. J Clin Microbiol. 23 (2): 240-5.
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/MCA403 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, 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

'M418825:230427'

Printed on 24 Feb 2025