

Datasheet: MCA403

BATCH NUMBER 162034

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 immunised 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** recognises 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. 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.](#)
2. 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.](#)
3. 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.](#)
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. Dauber, B. *et al.* (2009) Influenza B virus ribonucleoprotein is a potent activator of the antiviral kinase PKR. [PLoS Pathog. 5 \(6\): e1000473.](#)
6. 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.](#)

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 Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/MCA403>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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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