

## Datasheet: MCA403

|                      |                                      |
|----------------------|--------------------------------------|
| <b>Description:</b>  | MOUSE ANTI INFLUENZA B NUCLEOPROTEIN |
| <b>Specificity:</b>  | INFLUENZA B NUCLEOPROTEIN            |
| <b>Format:</b>       | Purified                             |
| <b>Product Type:</b> | Monoclonal Antibody                  |
| <b>Clone:</b>        | B017 (B35G)                          |
| <b>Isotype:</b>      | IgG2b                                |
| <b>Quantity:</b>     | 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](http://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.

|                                       |   |
|---------------------------------------|---|
| <b>Target Species</b>                 | Viral   |
| <b>Product Form</b>                   | Purified IgG - liquid   |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography 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 1.0 mg/ml   |

|                                      |  |
|--------------------------------------|--|
| <b>Immunogen</b>                     | Influenza B/Lee/40 and B/Singapore/-222/79 viruses.  |
| <b>RRID</b>                          | AB_2298473   |
| <b>Fusion Partners</b>               | Spleen cells from immunised BALB/c mice were fused with cells of the P3 Ag8.653 mouse myeloma cell line.   |
| <b>Specificity</b>                   | <p><b>Mouse anti Influenza B Nucleoprotein antibody, clone B017</b> recognises an epitope within the nucleoprotein of influenza B virus.</p> <p>The influenza viruses, classified as type A, B and C, are members of the <i>Orthomyxoviridae</i> 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.</p> <p>Mouse anti Influenza B Nucleoprotein antibody, clone B017 can be used in influenza B IFA typing in conjunction with <a href="#">MCA2717</a> (clone B114).</p>   |
| <b>References</b>                    | <ol style="list-style-type: none"> <li>1. Walls, H.H. <i>et al.</i> (1986) Characterization and evaluation of monoclonal antibodies developed for typing influenza A and influenza B viruses. <a href="#">J Clin Microbiol. 23 (2): 240-5.</a></li> <li>2. Zhirnov, O.P. <i>et al.</i> (1999) Caspase-dependent N-terminal cleavage of influenza virus nucleocapsid protein in infected cells. <a href="#">J Virol. 73 (12): 10158-63.</a></li> <li>3. Ehrhardt, C. <i>et al.</i> (2007) Activation of phosphatidylinositol 3-kinase signaling by the nonstructural NS1 protein is not conserved among type A and B influenza viruses. <a href="#">J Virol. 81 (21): 12097-100.</a></li> <li>4. Goujon, C. &amp; Malim, M.H. (2010) Characterization of the alpha interferon-induced postentry block to HIV-1 infection in primary human macrophages and T cells. <a href="#">J Virol. 84 (18): 9254-66.</a></li> <li>5. Dauber, B. <i>et al.</i> (2009) Influenza B virus ribonucleoprotein is a potent activator of the antiviral kinase PKR. <a href="#">PLoS Pathog. 5 (6): e1000473.</a></li> <li>6. Lesch, M. <i>et al.</i> (2019) RNAi-based small molecule repositioning reveals clinically approved urea-based kinase inhibitors as broadly active antivirals <a href="#">PLoS Pathog. 15(3):e1007601.</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: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>  |

## Related Products

### Recommended Secondary Antibodies

|   |   |
|---|---|
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>   |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>  |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> ,<br><a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>   |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |

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