

Datasheet: MCA2652

**BATCH NUMBER 150531**

|                      |   |
|----------------------|---|
| <b>Description:</b>  | MOUSE ANTI RESPIRATORY SYNCYTIAL VIRUS FUSION PROTEIN |
| <b>Specificity:</b>  | RESPIRATORY SYNCYTIAL VIRUS FUSION PROTEIN            |
| <b>Other names:</b>  | RSV   |
| <b>Format:</b>       | Purified  |
| <b>Product Type:</b> | Monoclonal Antibody                                   |
| <b>Clone:</b>        | 0651  |
| <b>Isotype:</b>      | IgG2a   |
| <b>Quantity:</b>     | 0.1 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                      | ▪   |    |                | 1/20 - 1/200       |
| Immunoprecipitation        |     |    | ▪              |                    |
| Western Blotting           |     |    | ▪              |                    |
| Immunofluorescence         | ▪   |    |                | 1/10 - 1/50        |
| Functional Assays          |     |    | ▪              |                    |

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.

|                        |   |
|------------------------|---|
| <b>Target Species</b>  | Viral   |
| <b>Product Form</b>    | Purified IgG - liquid   |
| <b>Preparation</b>     | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |
| <b>Buffer Solution</b> | Phosphate buffered saline   |

|                                       |  |
|---------------------------------------|--|
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )   |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.1mg/ml   |
| <b>Immunogen</b>                      | Fusion protein of the human Respiratory Syncytial Virus.   |
| <b>RRID</b>                           | AB_844557  |
| <b>Specificity</b>                    | <p><b>Mouse anti Respiratory syncytial virus antibody, clone 0651</b> detects the fusion protein of human respiratory syncytial virus (RSV), groups A and B. RSV is a negative-sense, single-stranded RNA virus and is a member of the <i>Paramyxoviridae</i> family. RSV causes respiratory tract infections in patients of all ages, but particularly affects infants and the immunosuppressed.</p> <p>RSV encodes three envelope glycoproteins, a small hydrophobic (SH) protein of unknown function, a glycoprotein (G) known as the attachment protein, and a fusion (F) protein. The F protein directs fusion of viral and cellular membranes, resulting in viral penetration, and can lead to the formation of syncytia.</p> <p>The F protein is thought to be the principal antigen responsible for inducing an immune response.</p> |
| <b>References</b>                     | <ol style="list-style-type: none"> <li>Schlender, J. <i>et al.</i> (2003) Respiratory syncytial virus (RSV) fusion protein subunit F2, not attachment protein G, determines the specificity of RSV infection. <a href="#">J Virol. 77 (8): 4609-16.</a></li> <li>Kim, Y.K. <i>et al.</i> (2007) Genetic variability of the fusion protein and circulation patterns of genotypes of the respiratory syncytial virus. <a href="#">J Med Virol. 79 (6): 820-8.</a></li> </ol>   |
| <b>Further Reading</b>                | <ol style="list-style-type: none"> <li>Cianci, C. <i>et al.</i> (2005) Antiviral activity and molecular mechanism of an orally active respiratory syncytial virus fusion inhibitor. <a href="#">J Antimicrob Chemother. 55 (3): 289-92.</a></li> </ol>   |
| <b>Storage</b>                        | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>   |
| <b>Guarantee</b>                      | 12 months from date of despatch  |
| <b>Health And Safety Information</b>  | <p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2652">https://www.bio-rad-antibodies.com/SDS/MCA2652</a></p> <p>10040</p>   |
| <b>Regulatory</b>                     | For research purposes only   |

## Related Products

## Recommended Secondary Antibodies

|   |   |
|---|---|
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <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 (STAR70...)         | <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> |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |

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|----------------------------------|---|------------------|---|---------------|---|
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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://bio-rad-antibodies.com/datasheets)  
'M367264:200529'

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