

## Datasheet: MCA929F

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| <b>Description:</b>  | MOUSE IgG2a NEGATIVE CONTROL:FITC |
| <b>Specificity:</b>  | MOUSE IgG2a NEGATIVE CONTROL      |
| <b>Format:</b>       | FITC                              |
| <b>Product Type:</b> | Negative/Isotype Control          |
| <b>Isotype:</b>      | IgG2a                             |
| <b>Quantity:</b>     | 100 TESTS                         |

## 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 | ■   |    |                | *                  |

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures.

\* It is recommended that the user dilutes the antibody for use in their own system to a concentration equivalent to their test reagent.

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|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|
| <b>Target Species</b>                 | Negative Control                                                                                                                                                                                                         |                            |                          |
| <b>Product Form</b>                   | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid                                                                                                                                           |                            |                          |
| <b>Max Ex/Em</b>                      | <b>Fluorophore</b>                                                                                                                                                                                                       | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                                       | FITC                                                                                                                                                                                                                     | 490                        | 525                      |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant                                                                                                                            |                            |                          |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                                                                                                                                                                                |                            |                          |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide                                                                                                                                                                                                       |                            |                          |
|                                       | 1% Bovine Serum Albumin                                                                                                                                                                                                  |                            |                          |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.1 mg/ml                                                                                                                                                                                              |                            |                          |
| <b>Immunogen</b>                      | Activated rat T-helper cells.                                                                                                                                                                                            |                            |                          |
| <b>Fusion Partners</b>                | Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.                                                                                                                        |                            |                          |
| <b>Specificity</b>                    | <b>Mouse IgG2a negative control antibody, clone OX-34</b> is suitable for use as a negative control reagent for the measurement of non-specific binding of mouse monoclonal antibodies of isotype IgG2a to human tissue. |                            |                          |

Clone MRC OX-34 recognises a rat cell surface marker, and therefore cannot be used as a negative control in this species.

This product is routinely tested in flow cytometry on rat splenocytes to confirm antibody activity and on human whole blood to test for suitability as a negative control.

Test results have shown that MCA929 is also suitable for use as a negative control with bovine, ovine, porcine, equine, canine, lapine and guinea-pig tissues.

This antibody may not be suitable for intracellular staining on some cell types.

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| <b>Flow Cytometry</b> | Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. |
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| <b>References</b> | <ol style="list-style-type: none"><li>1. Avigdor, A. <i>et al.</i> (2004) CD44 and hyaluronic acid cooperate with SDF-1 in the trafficking of human CD34+ stem/progenitor cells to bone marrow. <a href="#">Blood. 103 (8): 2981-9.</a></li><li>2. Kamble, N.M. <i>et al.</i> (2016) Interaction of a live attenuated <i>Salmonella gallinarum</i> vaccine candidate with chicken bone marrow-derived dendritic cells. <a href="#">Avian Pathol. Jan 26:1-24. [Epub ahead of print]</a></li><li>3. Wattegedera, S.R. <i>et al.</i> (2017) Enhancing the toolbox to study IL-17A in cattle and sheep. <a href="#">Vet Res. 48 (1): 20.</a></li></ol> |
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| <b>Storage</b> | Store at +4°C or at -20°C if preferred. |
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This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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| <b>Shelf Life</b> | 18 months from date of despatch. |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at:<br>10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a> |
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| <b>Regulatory</b> | For research purposes only |
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