

## Datasheet: MCA1773F

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|----------------------|--------------------------|
| <b>Description:</b>  | MOUSE ANTI RAT CD61:FITC |
| <b>Specificity:</b>  | CD61                     |
| <b>Other names:</b>  | INTEGRIN BETA 3 CHAIN    |
| <b>Format:</b>       | FITC                     |
| <b>Product Type:</b> | Monoclonal Antibody      |
| <b>Clone:</b>        | F11                      |
| <b>Isotype:</b>      | IgG1                     |
| <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 | ■   |    |                | Neat               |

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>                 | Rat                                                                                                          |                            |                          |
| <b>Species Cross Reactivity</b>       | Reacts weakly with:Human<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species. |                            |                          |
| <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>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>                      | Bone cell suspension from SD rats.                                                                           |                            |                          |
| <b>Fusion Partners</b>                | Spleen cells from immunized Balb/c mice were fused with the cells of the mouse X63-Ag8 myeloma cell line.    |                            |                          |

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>                   | <p><b>Mouse anti Rat CD61 antibody, clone F11</b> recognizes the rat CD61 cell surface antigen, also known as the integrin b3 chain.</p> <p>CD61 is expressed by platelets, megakaryocytes and osteoclasts. Clone F11 has been shown to inhibit the <i>in vitro</i> attachment of osteoclasts to various proteins including vitronectin, fibrinogen and von Willebrand Factor (<a href="#">Sick et al. 2009</a>).</p>                                                                                                                                                                                                                                                                                                                                                        |
| <b>Flow Cytometry</b>                | Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>References</b>                    | <ol style="list-style-type: none"> <li>1. Helfrich, M.H. <i>et al.</i> (1992) Integrins on rat osteoclasts: characterization of two monoclonal antibodies (F4 and F11) to rat beta 3. <a href="#">J Bone Miner Res. 7 (3): 345-51.</a></li> <li>2. Shankar, G. <i>et al.</i> (1993) Integrin receptor-mediated mobilisation of intranuclear calcium in rat osteoclasts. <a href="#">J Cell Sci. 105 ( Pt 1): 61-8.</a></li> <li>3. Sick, E. <i>et al.</i> (2009) Activation of CD47 receptors causes histamine secretion from mast cells. <a href="#">Cell Mol Life Sci. 66: 1271-82.</a></li> <li>4. Wang, Z. <i>et al.</i> (2015) Microparticle levels after arterial injury and NO therapy in diabetes. <a href="#">J Surg Res. pii: S0022-4804(15)00867-7</a></li> </ol> |
| <b>Storage</b>                       | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Shelf Life</b>                    | 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA1209F\)](#)

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
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