

Datasheet: MCA156F

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| Description: | MOUSE ANTI RAT MHC CLASS I RT1Ac:FITC |
| Specificity: | MHC CLASS I RT1Ac |
| Format: | FITC |
| Product Type: | Monoclonal Antibody |
| Clone: | OX-27 |
| Isotype: | IgG2a |
| Quantity: | 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.

| | 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.

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| Target Species | Rat | | |
| Product Form | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
| | FITC | 490 | 525 |
| Preparation | Antibody purified from tissue culture supernatant | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative | 0.09% Sodium Azide | | |
| Stabilisers | 1.0% Bovine Serum Albumin | | |
| Approx. Protein Concentrations | Isotype concentration 0.1 mg/ml | | |
| Immunogen | PHA activated rat lymphocytes. | | |

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| RRID | AB_323675 |
| Fusion Partners | Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line. |
| Specificity | Mouse anti Rat MHC Class I RT1Ac antibody, clone OX-27 recognizes a polymorphic determinant (c haplotype) of rat Class I MHC Antigen (RT-1A). |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | <ol style="list-style-type: none"> Hikita, N. <i>et al.</i> (1997) Use of topical FK506 in a corneal graft rejection model in Lewis rats. Invest Ophthalmol Vis Sci. 38 (5): 901-9. Sharland, A. <i>et al.</i> (1999) Evidence that apoptosis of activated T cells occurs in spontaneous tolerance of liver allografts and is blocked by manipulations which break tolerance. Transplantation. 68:1736-45. Huang, W.C. <i>et al.</i> (2010) Vascularized bone grafts within composite tissue allotransplants can autogenerate tolerance through mixed chimerism with partial myeloablative conditioning: an experimental study in rats. Plast Reconstr Surg. 125 (4): 1095-103. Wang Y <i>et al.</i> (2012) Role of donor-specific regulatory T cells in long-term acceptance of rat hind limb allograft. PLoS One. 7 (8): e43825. Liu, Q. <i>et al.</i> (2013) Heart allograft tolerance induced and maintained by vascularized hind-limb transplant in rats. Clin Dev Immunol. 2013: 483856. Zhu, H. <i>et al.</i> (2015) Rat model of heterotopic toe allotransplantation. J Surg Res. 199 (2): 707-17. Gu, C. <i>et al.</i> (2016) Triptolide Reduces the Required Dose of Tacrolimus by Attenuating Inflammation, Enhancing Immunosuppression, and Increasing Donor Chimerism in a Heterotopic Hindlimb Transplantation Model. Plast Reconstr Surg. 138 (6): 1243-1253. von Websky, M.W. <i>et al.</i> (2016) Recombinant HLA-G as Tolerogenic Immunomodulant in Experimental Small Bowel Transplantation. PLoS One. 11 (7): e0158907. Schweizer, R. <i>et al.</i> (2020) Adipose-derived stromal cell therapy combined with a short course nonmyeloablative conditioning promotes long-term graft tolerance in vascularized composite allotransplantation. Am J Transplant. 20 (5): 1272-84. |
| Storage | <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. This product is photosensitive and should be protected from light.</p> |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA156F 10041 |

Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA1210F\)](#)

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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
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Printed on 18 Jan 2024
