

Datasheet: MCA6078F

BATCH NUMBER 153577

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| Description: | RAT ANTI MOUSE MHC CLASS II I-A/I-E:FITC |
| Specificity: | MHC CLASS II I-A/I-E |
| Format: | FITC |
| Product Type: | Monoclonal Antibody |
| Clone: | M5/114.15.2 |
| Isotype: | IgG2b |
| 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 | ▪ | | | 1/20 |

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.

| Target Species | Mouse | | | | | | |
|---------------------------------------|--|-------------------|---------------------|-------------------|------|-----|-----|
| Product Form | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid | | | | | | |
| Max Ex/Em | <table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table> | Fluorophore | Excitation Max (nm) | Emission Max (nm) | FITC | 490 | 525 |
| Fluorophore | Excitation Max (nm) | Emission Max (nm) | | | | | |
| FITC | 490 | 525 | | | | | |
| Preparation | Purified IgG prepared by affinity chromatography | | | | | | |
| Buffer Solution | Phosphate buffered saline | | | | | | |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) | | | | | | |
| Approx. Protein Concentrations | IgG concentration 0.5 mg/ml | | | | | | |
| Immunogen | Activated C57BL/6 mouse spleen cells. | | | | | | |

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| External Database Links | UniProt: Q31161 Related reagents |
| Fusion Partners | Immunized (BN x Lewis)F ₁ rat spleen cells were fused with the NS1 myeloma cell line. |
| Specificity | Rat anti Mouse MHC class II I-A/I-E antibody, clone M5/114.15.2 recognizes a polymorphic determinant shared by the mouse I-Ab/d/q and I-Ed/k MHC class II alloantigens expressed by mice of the H-2p/r/q/b/d/u haplotypes. This antibody does not recognize the I-Af/k/s MHC class II alloantigens. The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In mice, this complex is referred to as the histocompatibility 2 (H-2) region. MHC class II molecules are expressed by dendritic cells, B-cells and macrophages. |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul |
| References | <ol style="list-style-type: none"> 1. Tan, C.S.E. <i>et al.</i> (2017) CD8+ T cell evasion mandates CD4+ T cell control of chronic gamma-herpesvirus infection. PLoS Pathog. 13 (4): e1006311. 2. Curtsinger JM <i>et al.</i> (1999) Inflammatory cytokines provide a third signal for activation of naive CD4+ and CD8+ T cells. J Immunol. 162 (6): 3256-62. 3. Miyazaki, T. <i>et al.</i> (1996) Mice lacking H2-M complexes, enigmatic elements of the MHC class II peptide-loading pathway. Cell. 84 (4): 531-41. 4. Anderson, M.S. & Miller, J. (1992) Invariant chain can function as a chaperone protein for class II major histocompatibility complex molecules. Proc Natl Acad Sci U S A. 89 (6): 2282-6. 5. Lawler, C. & Stevenson, P.G. (2019) A CD4⁺ T cell/NK cell axis of γ-herpesvirus control. J Virol. Nov 06 [Epub ahead of print]. |
| Storage | Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6078F 10040 |
| Regulatory | For research purposes only |

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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://www.bio-rad-antibodies.com/datasheets)

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