

Datasheet: MCA2691SBY720

| Description: | RAT ANTI MOUSE CD4:StarBright Yellow 720 |
|---------------|--|
| Specificity: | CD4 |
| Other names: | L3T4 ANTIGEN, LY-4 |
| Format: | StarBright Yellow 720 |
| Product Type: | Monoclonal Antibody |
| Clone: | RM4-5 |
| Isotype: | IgG2a |
| Quantity: | 100 TESTS/0.5ml |
| | |

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 <u>www.bio-rad-antibodies.com/protocols</u> . | | | | | | |
|-----------------|--|------------------|----------|---------------------------|---|--|--|
| | | Yes | No | Not Determined | Suggested Dilution | | |
| | Flow Cytometry | - | | | Neat | | |
| | Where this product has | | | • | • | | |
| | necessarily exclude its a guide only. It is recor system using appropria | mmended that | t the us | er titrates the product f | ng dilutions are given as for use in their own | | |
| Target Species | Mouse | | | | | | |
| Product Form | Purified IgG conjugated to StarBright Yellow 720 - liquid | | | | | | |
| Max Ex/Em | Fluorophore | Excitation Ma | ax (nm) | Emission Max (nm) | | | |
| | StarBright Yellow 720 | 549 | | 719 | | | |
| Preparation | Purified IgG prepared I supernatant | by affinity chro | omatogi | raphy on Protein G fro | m tissue culture | | |
| Buffer Solution | Phosphate buffered saline | | | | | | |
| Preservative | 0.09% Sodium Azide (NaN ₃) | | | | | | |
| Stabilisers | 1% Bovine Serum Albumin | | | | | | |
| | 0.1% Pluronic F68 | | | | | | |
| | 0.1% PEG 3350 | | | | | | |
| | 0.05% Tween 20 | | | | | | |

| External Database Links UniProt: E06332 Related reagents Entrez Gene: 12504 Cd4 Related reagents Specificity Rat anti Mouse CD4 antibody, clone RM4-5 detects mouse CD4, a 55 kDa protein also known as Ly4 and L314. CD4 is a single chain transmembraneous glycoprotein which belongs to the immunoglobulin superfamily, and is primatily expressed on peripheral blood monocytes and tissue macrophages. CD4 is also expressed on a subpopulation of regulatory T cells (CD4*CD25*), which play a key role in the maintenance of self tolerance. Flow Cytometry Use 5µl of the suggested working dilution to label 10 ⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application. References 1. von Kutzleben, S. <i>et al.</i> (2017) Depletion of CD52-positive cells inhibits the development of central nervous system autoimmune disease, but deletes an immune- tolerance promoting CD8 T-cell population. Implications for secondary autoimmunity of alemtuzumab in multiple sclerosis. Immunology 150(4): 444-55. 2. Zamudio, F. <i>et al.</i> (2020) TDP-43 mediated blood-brain barrier permeability and leukocyte infittration promote neurodegeneration in a low-grade systemic inflammation mouse model. J Neuroinflammation. 11 (1): 283. 3. Aloui, A. <i>et al.</i> (2023) AFM(1) Exposure in Male Balb/c Mice and Intervention Strategies Against Its Immuno-physiological toxicity using Clay Mineral and Lectic Acid Bacteria Alone or in Combination. Immunopharmacol Immunotoxici. 1: 1-32. Further Reading 1. Fehérvari, Z. & Sakaguchi, S. (2004) CD4+ Tregs and immune control. J Clin Invest. 114 (6): 1209-17. Storage Store at +4*C. D0 NOT FREEZE: This product should be sto | Immunogen | BALB/c mouse thymocytes |
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| | - | https://www.bio-rad-antibodies.com/SDS/MCA2691SBY720 |

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

| North & South | Tel: +1 800 265 7376 | Worldwide | Tel: +44 (0)1865 852 700 | Europe | Tel: +49 (0) 89 8090 95 21 |
|---------------|--------------------------------------|-----------|--------------------------------------|--------|--------------------------------------|
| America | Fax: +1 919 878 3751 | | Fax: +44 (0)1865 852 739 | | Fax: +49 (0) 89 8090 95 50 |
| | Email: antibody_sales_us@bio-rad.com | | Email: antibody_sales_uk@bio-rad.com | | Email: antibody_sales_de@bio-rad.com |

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M418440:230420'

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