

Datasheet: MCA2586A488

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| Description: | RAT ANTI MOUSE CD199:Alexa Fluor® 488 |
| Specificity: | CD199 |
| Other names: | CCR9 |
| Format: | ALEXA FLUOR® 488 |
| Product Type: | Monoclonal Antibody |
| Clone: | 9B1 |
| Isotype: | IgG2a |
| Quantity: | 100 TESTS/1ml |

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 - 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.

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|---------------------------------------|---|----------------------------|--------------------------|
| Target Species | Mouse | | |
| Product Form | Purified IgG conjugated to Alexa Fluor® 488 - liquid | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
| | Alexa Fluor®488 | 495 | 519 |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) | | |
| | 1% | Bovine Serum Albumin | |
| Approx. Protein Concentrations | IgG concentration 0.05mg/ml | | |

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| Immunogen | 25 amino acids from the amino terminal of murine CCR9, coupled to KLH. |
| External Database Links | <p>UniProt: Q9WUT7 Related reagents</p> <p>Entrez Gene: 12769 Ccr9 Related reagents</p> |
| Synonyms | Cmkbr10 |
| RRID | AB_1604845 |
| Fusion Partners | Spleen cells from immunised Lewis rat were fused with cells of the X63-Ag8.653 myeloma cell line. |
| Specificity | <p>Rat anti Mouse CD199 antibody, clone 9B1 detects mouse chemokine receptor 9 (CCR9), also known as CD199. CCR9 is a seven transmembrane protein which is a member of the beta chemokines receptor family. CCR9 is expressed in thymus and small intestine, and mediates the recruitment and development of thymocytes in response to CCL25; the only known ligand of CCR9.</p> <p>CCR9 is an alternative co-receptor with CD4 for HIV infection, and has been implicated in adult T cell leukaemia. Two alternatively spliced transcript variants have been described.</p> <p>Clone 9B1 blocks CCL25-induced Ca²⁺ release, attenuating inflammation in a murine model of chronic ileitis when given in early disease stages.</p> |
| Flow Cytometry | <p>Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).</p> |
| References | <ol style="list-style-type: none"> Rivera-nieves, J. <i>et al.</i> (2006) Antibody blockade of CCL25/CCR9 ameliorates early but not late chronic murine ileitis. Gastroenterology. 131 (5): 1518-29. Nagakubo, D. <i>et al.</i> (2007) Expression of CCR9 in HTLV-1+ T cells and ATL cells expressing Tax. Int J Cancer. 120 (7): 1591-7. |
| Further Reading | 1. Uehara, S. <i>et al.</i> (2006) Premature expression of chemokine receptor CCR9 impairs T cell development. J Immunol. 176 (1): 75-84. |
| 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</p> |

protected from light.

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA1212A488\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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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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