

Datasheet: MCA2586A647

Description:	RAT ANTI MOUSE CDw199:Alexa Fluor® 647
Specificity:	CDw199
Other names:	CCR9
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	9B1
Isotype:	IgG2a
Quantity:	100 TESTS/1ml

Product Details

RRID AB_2073256

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 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 Alexa Fluor® 647 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

Preparation Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide (NaN₃)
Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.05mg/ml

Immunogen 25 amino acids from the amino terminal of murine CCR9, coupled to KLH.

External Database Links **UniProt:**

Entrez Gene:

[12769](#) Ccr9 [Related reagents](#)

Synonyms	Cmkbr10
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Fusion Partners	Spleen cells from immunised Lewis rat were fused with cells of the X63-Ag8.653 myeloma cell line.
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Specificity	<p>Rat anti Mouse CDw199 antibody, clone 9B1 detects mouse chemokine receptor 9 (CCR9), also known as CDw199. 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>
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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>
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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.
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Further Reading	<ol style="list-style-type: none">Uehara, S. <i>et al.</i> (2006) Premature expression of chemokine receptor CCR9 impairs T cell development. J Immunol. 176 (1): 75-84.
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Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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Guarantee	18 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® 647 \(MCA1212A647\)](#)

Recommended Useful Reagents

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

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

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'M343670:190111'

Printed on 20 May 2019

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