

## Datasheet: MCA2586PE

<b>Description:</b>	RAT ANTI MOUSE CDw199:RPE
<b>Specificity:</b>	CDw199
<b>Other names:</b>	CCR9
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	9B1
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS

## Product Details

**RRID** AB\_2073255

**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](http://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 R. Phycoerythrin (RPE) - lyophilized

**Reconstitution** Reconstitute with 1.0ml distilled water

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578

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

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.09% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 1% Bovine Serum Albumin  
 5% Sucrose

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

**External Database** **UniProt:**

**Links**

[Q9WUT7](#) [Related reagents](#)

**Entrez Gene:**

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

**Synonyms**

Cmkbr10

**Fusion Partners**

Spleen cells from immunised Lewis rat were fused with cells of the X63-Ag8.653 myeloma cell line.

**Specificity**

**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.

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.

Clone 9B1 blocks CCL25-induced Ca<sup>2+</sup> release, attenuating inflammation in a murine model of chronic ileitis when given in early disease stages.

**Flow Cytometry**

Use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul.

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](#)).

**References**

1. Rivera-nieves, J. *et al.* (2006) Antibody blockade of CCL25/CCR9 ameliorates early but not late chronic murine ileitis. [Gastroenterology. 131 \(5\): 1518-29.](#)
2. Nagakubo, D. *et al.* (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. *et al.* (2006) Premature expression of chemokine receptor CCR9 impairs T cell development. [J Immunol. 176 \(1\): 75-84.](#)

**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**

18 months from date of reconstitution

**Health And Safety Information**

Material Safety Datasheet documentation #10075 available at: 10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

**Regulatory**

For research purposes only

## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA1212PE\)](#)

### Recommended Useful Reagents

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

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

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'M343671:190111'

**Printed on 20 May 2019**

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