

Datasheet: MCA2367F

Description:	RAT ANTI MOUSE CD197:FITC
Specificity:	CD197
Other names:	CCR7
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	4B12
Isotype:	IgG2a
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	■			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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
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 0.1 mg/ml		

Immunogen	CCR7 rat basophilic leukaemia (RBL)-2H3 transfectants.
External Database Links	<p>UniProt: P47774 Related reagents</p> <p>Entrez Gene: 12775 Ccr7 Related reagents</p>
Synonyms	Cmkbr7, Ebi1, Ebi1h
RRID	AB_566602
Fusion Partners	Spleen cells from immunised Lou/c rats were fused with cells of the mouse X63.Ag8.653 myeloma cell line.
Specificity	<p>Rat anti Mouse CD197 antibody, clone 4B12 recognizes murine C-C chemokine receptor type 7, also known as CD197, Epstein-Barr virus-induced G-protein coupled receptor 1, CCR7 or MIP-3 beta receptor. CD197 is a 354 amino acid ~43 kDa member of the G-protein coupled receptor family. In mice, CD197 is expressed on most naïve T cells, a subset of memory T cells, B cells, mature dendritic cells, NK cells, a subset of thymocytes and CD34+ macrophage progenitor cells.</p> <p>CD197 is a functional receptor for chemokines CCL21 and CCL19. The receptor plays an important role in regulating the trafficking and homing of lymphocytes and dendritic cells to secondary lymphoid organs.</p> <p>Rat anti Mouse CD197 antibody, clone 4B12 does not block the binding of the ligand to CD197.</p>
Flow Cytometry	<p>Use 20µl of the suggested working dilution to label 10⁶ cells in 100µl.</p> <p>The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/BUF041B).</p>
References	1. Ritter, U. <i>et al.</i> (2004) Analysis of the CCR7 expression on murine bone marrow-derived and spleen dendritic cells. J Leukoc Biol. 76 (2): 472-6.
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 protected from light.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at:

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:FITC \(MCA1212F\)](#)

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](https://www.bio-rad-antibodies.com/datasheets)

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