

Datasheet: MCA2367A488T

Description:	RAT ANTI MOUSE CD197:Alexa Fluor® 488
Specificity:	CD197
Other names:	CCR7
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	4B12
Isotype:	IgG2a
Quantity:	25 TESTS/0.25ml

Product Details

RRID AB_1101106

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 antibody 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 antibody for use in their own system using appropriate negative/positive controls.

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 0.09% Sodium Azide
Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.05 mg/ml

Immunogen CCR7 rat basophilic leukaemia (RBL)-2H3 transfectants.

External Database Links **UniProt:**

Entrez Gene:

[12775](#) Ccr7 [Related reagents](#)

Synonyms	Cmkbr7, Ebi1, Ebi1h
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Fusion Partners	Spleen cells from immunised Lou/c rats were fused with cells of the mouse X63.Ag8.653 myeloma cell line.
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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>
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Flow Cytometry	<p>Use 20ul of the suggested working dilution to label 10⁶ 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 (</p>
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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.
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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.</p> <p>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
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Related Products

Recommended Negative Controls

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

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America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

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