

## Datasheet: MCA2367A488

<b>Description:</b>	RAT ANTI MOUSE CD197:Alexa Fluor® 488
<b>Specificity:</b>	CD197
<b>Other names:</b>	CCR7
<b>Format:</b>	ALEXA FLUOR® 488
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	4B12
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 488 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®488	495	519
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>Immunogen</b>	CCR7 rat basophilic leukaemia (RBL)-2H3 transfectants.		
<b>External Database Links</b>	<b>UniProt:</b>		
	<a href="#">P47774</a>	<a href="#">Related reagents</a>	

**Entrez Gene:**

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

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<b>Synonyms</b>	Cmkbr7, Ebi1, Ebi1h
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<b>Fusion Partners</b>	Spleen cells from immunised Lou/c rats were fused with cells of the mouse X63.Ag8.653 myeloma cell line.
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<b>Specificity</b>	<p><b>Rat anti Mouse CD197 antibody, clone 4B12</b> 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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<b>Flow Cytometry</b>	<p>Use 20ul of the suggested working dilution to label 10<sup>6</sup> 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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<b>References</b>	1. Ritter, U. <i>et al.</i> (2004) Analysis of the CCR7 expression on murine bone marrow-derived and spleen dendritic cells. <a href="#">J Leukoc Biol. 76 (2): 472-6.</a>
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<b>Storage</b>	<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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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
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## 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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