

## Datasheet: MCA2367A647

<b>Description:</b>	RAT ANTI MOUSE CD197:Alexa Fluor® 647
<b>Specificity:</b>	CD197
<b>Other names:</b>	CCR7
<b>Format:</b>	ALEXA FLUOR® 647
<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 - 1/10

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.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<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 (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% bovine serum albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		

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

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**External Database**

**Links**

**UniProt:**

[P47774](#) [Related reagents](#)

**Entrez Gene:**

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

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**Synonyms**

Cmkbr7, Ebi1, Ebi1h

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**RRID**

AB\_566598

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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**

**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.

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.

Rat anti Mouse CD197 antibody, clone 4B12 does not block the binding of the ligand to CD197.

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**Flow Cytometry**

Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl

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**References**

1. Ritter, U. *et al.* (2004) Analysis of the CCR7 expression on murine bone marrow-derived and spleen dendritic cells. [J Leukoc Biol. 76 \(2\): 472-6.](#)
  2. Parodi, B. *et al.* (2021) Hydroxycarboxylic Acid Receptor 2, a Pleiotropically Linked Receptor for the Multiple Sclerosis Drug, Monomethyl Fumarate. Possible Implications for the Inflammatory Response. [Front Immunol. 12: 655212.](#)
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**Storage**

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.

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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2367A647>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1212A647\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://bio-rad-antibodies.com/datasheets)  
'M414748:221213'

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