

Datasheet: MCA2367A647

BATCH NUMBER 165240

Description:	RAT ANTI MOUSE CD197:Alexa Fluor® 647
Specificity:	CD197
Other names:	CCR7
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	4B12
Isotype:	IgG2a
Quantity:	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.

	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.

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

Concentrations

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

External Database Links

UniProt:

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

Entrez Gene:

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

Synonyms Cmkbr7, Ebi1, Ebi1h

RRID AB_566598

Fusion Partners Spleen cells from immunised Lou/c rats were fused with cells of the mouse X63.Ag8.653 myeloma cell line.

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.

Flow Cytometry Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl

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.](#)

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.

Guarantee 12 months from date of despatch

Acknowledgements This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com

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

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M414748:221213'

Printed on 06 Jun 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)