

Datasheet: MCA2244A647

BATCH NUMBER 1807

Description:	RAT ANTI MOUSE LYMPHOTOXIN BETA RECEPTOR:Alexa Fluor® 647
Specificity:	LYMPHOTOXIN BETA RECEPTOR
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	5G11b
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

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 647 - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®647</td> <td>650</td> <td>665</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®647	650	665
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 Concentrations	IgG concentration 0.05 mg/ml						

Immunogen	Recombinant extracellular domain of LT beta R.
External Database Links	<p>UniProt: P50284 Related reagents</p> <p>Entrez Gene: 17000 Ltbr Related reagents</p>
Synonyms	Tnfr, Tnfrsf3
Fusion Partners	Spleen cells from immunised Wistar rats were fused with cells of the SP2/0 - Ag14 mouse myeloma cell line.
Specificity	<p>Rat anti Mouse Lymphotoxin beta Receptor antibody, clone 5G11b recognizes murine Tumor necrosis factor receptor superfamily member 3, also known as lymphotoxin-beta receptor, LT beta R, or Tumor necrosis factor receptor superfamily member 3. Lymphotoxin beta receptor is 385 amino acid (415 aa including 30 aa signal peptide) ~50 kDa type 1, single pass transmembrane glycoprotein and member of the tumor necrosis factor family. LT beta R is primarily expressed on stromal cells and fibroblasts and at lower levels on myeloid cell lines. Rat anti Mouse Lymphotoxin beta Receptor antibody, clone 5G11b recognizes surface expressed LT beta R.</p> <p>Rat anti Mouse Lymphotoxin beta Receptor antibody, clone 5G11b is reported to be agonistic with respect to NF Kappa B activation, MIP-2 induction and IL-6 release (Hehlhans <i>et al.</i> 2003).</p> <p>Rat anti Mouse Lymphotoxin beta Receptor antibody, clone 5G11b is routinely tested on WEH164S cells.</p>
Flow Cytometry	<p>Use 10ul 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 (BUF041A/B).</p>
References	<ol style="list-style-type: none"> Palumbo, M.O. <i>et al.</i> (2006) Isolation and characterization of proinsulin-producing medullary thymic epithelial cell clones. Diabetes. 55: 2595-601. Moore, F. <i>et al.</i> (2007) An alternative pathway of NF-kappaB activation results in maturation and T cell priming activity of dendritic cells overexpressing a mutated IkappaBalpha. J Immunol. 178: 1301-11. Magari, M. <i>et al.</i> (2011) IL-21-Dependent B Cell Death Driven by Prostaglandin E2, a Product Secreted from Follicular Dendritic Cells. J Immunol. 187: 4210-8. Into, T. <i>et al.</i> (2018) MyD88 signaling causes autoimmune sialadenitis through formation of high endothelial venules and upregulation of LTββ receptor-mediated signaling. Sci Rep. 8 (1): 14272.
Further Reading	<ol style="list-style-type: none"> Muller, P. <i>et al.</i> (2001) Functional characterization of the mouse lymphotoxin-beta receptor promoter. Eur Cytokine Netw. 12 (2): 325-30.

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use

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 purchased 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/MCA2244A647>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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

'M344326:190111'

Printed on 18 Jan 2024

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