

Datasheet: MCA2244A647

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:</p> <p>P50284 Related reagents</p> <p>Entrez Gene:</p>						

Synonyms	Tnfr, Tnfrsf3
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Fusion Partners	Spleen cells from immunised Wistar rats were fused with cells of the SP2/0 - Ag14 mouse myeloma cell line.
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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 (Hehlgans et al. 2003).</p> <p>Rat anti Mouse Lymphotoxin beta Receptor antibody, clone 5G11b is routinely tested on WEH164S cells.</p>
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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>
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References	<ol style="list-style-type: none">1. Palumbo, M.O. <i>et al.</i> (2006) Isolation and characterization of proinsulin-producing medullary thymic epithelial cell clones. Diabetes. 55: 2595-601.2. 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: 1301-11.3. 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: 4210-8.4. 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.
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Further Reading	<ol style="list-style-type: none">1. Muller, P. <i>et al.</i> (2001) Functional characterization of the mouse lymphotoxin-beta receptor promoter. Eur Cytokine Netw. 12 (2): 325-30.
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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	12 months from date of despatch
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10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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 \(BUF041B\)](#)

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