

## Datasheet: MCA2244

<b>Description:</b>	RAT ANTI MOUSE LYMPHOTOXIN BETA RECEPTOR
<b>Specificity:</b>	LYMPHOTOXIN BETA RECEPTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	5G11b
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.25 mg

## 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	▪			1/50 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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 - liquid
<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 Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant extracellular domain of LT beta R.
<b>External Database</b>	<b>UniProt:</b>

Links [P50284](#) [Related reagents](#)

**Entrez Gene:**

[17000](#) Ltbr [Related reagents](#)

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**Synonyms** Tnfr, Tnfrsf3

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**RRID** AB\_566581

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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** **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.

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 \*et al.\* 2003](#)).

Rat anti Mouse Lymphotoxin beta Receptor antibody, clone 5G11b is routinely tested on WEH164S cells.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Palumbo, M.O. *et al.* (2006) Isolation and characterization of proinsulin-producing medullary thymic epithelial cell clones. [Diabetes. 55: 2595-601.](#)
2. Moore, F. *et al.* (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. *et al.* (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. *et al.* (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**

1. Muller, P. *et al.* (2001) Functional characterization of the mouse lymphotoxin-beta receptor promoter. [Eur Cytokine Netw. 12 \(2\): 325-30.](#)

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**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety** Material Safety Datasheet documentation #10040 available at:

**Information**10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®800</a>

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

<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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