

Datasheet: MCA2244PE

| | |
|----------------------|--|
| Description: | RAT ANTI MOUSE LYMPHOTOXIN BETA RECEPTOR:RPE |
| Specificity: | LYMPHOTOXIN BETA RECEPTOR |
| Format: | RPE |
| Product Type: | Monoclonal Antibody |
| Clone: | 5G11b |
| Isotype: | IgG2a |
| Quantity: | 100 TESTS |

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 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 R. Phycoerythrin (RPE) - lyophilized | | |
| Reconstitution | Reconstitute with 1.0 ml distilled water | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
| | RPE 488nm laser | 496 | 578 |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G supernatant | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative | 0.09% sodium azide (NaN ₃) | | |
| Stabilisers | 1% bovine serum albumin | | |
| | 5% sucrose | | |

| | |
|-------------------------|--|
| 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 |
| RRID | AB_566583 |
| Fusion Partners | Spleen cells from immunized 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 et al. 2003).</p> <p>Rat anti Mouse Lymphotoxin beta Receptor antibody, clone 5G11b is routinely tested on WEH164S cells.</p> |
| Flow Cytometry | <p>Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl.</p> <p>The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/BUF041B).</p> |
| 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. |
| Further Reading | 1. Muller, P. <i>et al.</i> (2001) Functional characterization of the mouse lymphotoxin-beta |

receptor promoter. [Eur Cytokine Netw. 12 \(2\): 325-30.](#)

| | |
|----------------|--|
| Storage | Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. |
|----------------|--|

| | |
|------------------|---------------------------------|
| Guarantee | 12 months from date of despatch |
|------------------|---------------------------------|

| | |
|--------------------------------------|--|
| Health And Safety Information | Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA2244PE 20487 |
|--------------------------------------|--|

| | |
|-------------------|----------------------------|
| Regulatory | For research purposes only |
|-------------------|----------------------------|

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA1212PE\)](#)

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

'M419288:230616'

Printed on 21 Sep 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)