

Datasheet: MCA2578PE

Description:	RAT ANTI MOUSE TREM-1:RPE
Specificity:	TREM-1
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	L5-B8.2A12.3A12
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 1.0ml distilled water						
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>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
RPE 488nm laser	496	578					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin						
Immunogen	Mouse TREM-1 Fc fusion protein.						
External Database Links	<p>UniProt: Q9JKE2 Related reagents</p> <p>Entrez Gene: 58217 Trem1 Related reagents</p>						

Specificity **Rat anti Mouse Trem-1 antibody, clone L5-B8.2A12.3A12** recognizes mouse triggering receptor expressed on myeloid cells 1 (TREM-1), a 30kD member of the immunoglobulin superfamily expressed on neutrophils and a subset of monocytes. TREM-1 is involved in the microbial inflammatory response. It acts in conjunction with the adaptor protein DAP12 to activate neutrophils and monocytes, leading to the secretion of pro-inflammatory mediators and enhancement of the inflammatory response. Microbial infection also induces the release of soluble form of TREM-1 from monocytes, which is reported to act as an inhibitor of TREM-1.

TREM-1 mediates the septic shock pathway, and blocking TREM-1 has been reported to reduce inflammation and increase survival in certain models of bacterial infection.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References 1. Wang, F. *et al.* (2012) Blocking TREM-1 signaling prolongs survival of mice with *Pseudomonas aeruginosa* induced sepsis. [Cell Immunol. 272 \(2\): 251-8.](#)

Storage 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.

Shelf Life 18 months from date of reconstitution.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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

'M304016:170314'

Printed on 05 May 2018

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