

## Datasheet: MCA4772PE

<b>Description:</b>	RAT ANTI MOUSE TREM-2:RPE
<b>Specificity:</b>	TREM-2
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	78.18
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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 1ml distilled water. Care should be taken during reconstitution as the protein may a bottom of the vial. Bio-Rad recommend that the vial is gently m		
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 Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin		

5% Sucrose

Immunogen	Mouse TREM-2 Fc fusion protein
External Database Links	<b>UniProt:</b> <a href="#">Q99NH8</a> <a href="#">Related reagents</a> <b>Entrez Gene:</b> <a href="#">83433</a> Trem2 <a href="#">Related reagents</a>
Synonyms	Trem2a, Trem2b, Trem2c
RRID	AB_11152936
Fusion Partners	Lymph node cells from immunised Fisher rats were fused with cells of the rat YB-2/0 myeloma cell line
Specificity	<p><b>Rat anti Mouse TREM-2 antibody, clone 78.18</b> recognizes triggering receptor expressed on myeloid cells 2 (TREM-2), an activating receptor of the Ig superfamily. TREM-2 forms a receptor signaling complex with DAP12 to trigger the activation of the immune response in macrophages and dendritic cells. It may be involved in chronic inflammation and may promote the production of constitutive rather than inflammatory chemokines and cytokines. TREM-2 may also have a functional role in osteoclast formation.</p> <p>Stimulation of TREM-2 with Rat anti Mouse Trem-2 antibody, clone 78.18 enhances multinucleated osteoclast formation <i>in vitro</i>. Rat anti Mouse Trem-2 antibody, clone 78.18 may also be used to block TREM-2 on pre-osteoclasts to inhibit the formation of multinuclear osteoclasts and to inhibit bone resorption by mature osteoclasts.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
References	<ol style="list-style-type: none"><li>1. Humphrey, M.B. <i>et al.</i> (2006) TREM2, a DAP12-associated receptor, regulates osteoclast differentiation and function. <a href="#">J Bone Miner Res. 21 (2): 237-45.</a></li><li>2. Vilalta, A. <i>et al.</i> (2021) Wild-type sTREM2 blocks A<math>\beta</math> aggregation and neurotoxicity, but the Alzheimer's R47H mutant increases A<math>\beta</math> aggregation. <a href="#">J Biol Chem. 296:100631.</a></li></ol>
Storage	<p>This product is shipped at ambient temperature.</p> <p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Acknowledgements	This product is for <i>in vitro</i> research use only. It is not to be used for commercial purposes. Use of this product to produce products for sale or for diagnostic, therapeutic or drug

discovery purposes is prohibited. In order to obtain a license to use this product for commercial purposes, contact The Regents of the University of California.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #20487 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA4772PE>  
20487

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**Regulatory**

For research purposes only

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## Related Products

### 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](mailto: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](mailto: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](mailto: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)

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