

Datasheet: MCA4772A647

**BATCH NUMBER 1806**

<b>Description:</b>	RAT ANTI MOUSE TREM-2:Alexa Fluor® 647
<b>Specificity:</b>	TREM-2
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	78.18
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](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.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<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</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		

<b>Immunogen</b>	Mouse TREM-2 Fc fusion protein
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q99NH8</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">83433</a> Trem2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Trem2a, Trem2b, Trem2c
<b>Fusion Partners</b>	Lymph node cells from immunised Fisher rats were fused with cells of the rat YB-2/0 myeloma cell line
<b>Specificity</b>	<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>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul
<b>References</b>	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>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than

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**Health And Safety Information**      Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA4772A647>  
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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

**North & South**    Tel: +1 800 265 7376

**America**            Fax: +1 919 878 3751

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