

## Datasheet: MCA4772

<b>Description:</b>	RAT ANTI MOUSE TREM-2
<b>Specificity:</b>	TREM-2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	78.18
<b>Isotype:</b>	IgG1
<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	▪			1/25 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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 - 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 (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/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>RRID</b>	AB_10845148
<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>	<ol style="list-style-type: none"> <li>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>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>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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 of 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 #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA4772>  
10040

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®650</a> , <a href="#">DyLight®800</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>

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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)  
'M395762:220519'

**Printed on 12 Aug 2023**

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