

## Datasheet: MCA4697T

**BATCH NUMBER 148568**

|                      |                         |
|----------------------|-------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN TREM-1 |
| <b>Specificity:</b>  | TREM-1                  |
| <b>Format:</b>       | Purified                |
| <b>Product Type:</b> | Monoclonal Antibody     |
| <b>Clone:</b>        | TREM-37                 |
| <b>Isotype:</b>      | IgG2b                   |
| <b>Quantity:</b>     | 25 µg                   |

## 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             | ▪   |    |                |                    |
| Immunohistology - Frozen   |     |    | ▪              |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      |     |    | ▪              |                    |
| Immunoprecipitation        |     |    | ▪              |                    |
| Western Blotting           | ▪   |    |                | 1ug/ml             |

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>                 | Human  |
| <b>Product Form</b>                   | Purified IgG - liquid                            |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography |
| <b>Buffer Solution</b>                | Phosphate buffered saline                        |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )           |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.5mg/ml                       |

|                                      |   |
|--------------------------------------|---|
| <b>Immunogen</b>                     | Recombinant human TREM-1.   |
| <b>External Database Links</b>       | <p><b>UniProt:</b><br/> <a href="#">Q9NP99</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">54210</a>   TREM1   <a href="#">Related reagents</a></p>  |
| <b>RRID</b>                          | AB_2208557  |
| <b>Specificity</b>                   | <p><b>Mouse anti Human Trem-1 antibody, clone TREM-37</b> recognizes Triggering receptor expressed on myeloid cells 1 also known as TREM-1, Triggering receptor expressed on monocytes 1 or CD354. Trem-1 is a 214 amino acid ~22 kDa single pass type 1 transmembrane immune receptor expressed on CD14<sup>+</sup> monocytes, macrophages and neutrophils, highly expressed in inflammatory lesions caused by fungi and bacteria. It stimulates neutrophil and monocyte-mediated inflammatory responses. TREM-1 activation, together with LPS and other PRR ligands, amplifies the production pro-inflammatory cytokines and thus the inflammatory response. TREM-1 also plays a crucial role in the mediation of septic shock (<a href="#">Bouchon et al. 2001</a>).</p> |
| <b>References</b>                    | <p>1. Chimma, P. <i>et al.</i> (2009) A distinct peripheral blood monocyte phenotype is associated with parasite inhibitory activity in acute uncomplicated <i>Plasmodium falciparum</i> malaria. <a href="#">PLoS Pathog. (10):e1000631</a>.</p>   |
| <b>Storage</b>                       | <p>Store at +4°C or at -20°C if preferred.<br/> Storage in frost-free freezers is not recommended.<br/> This product should be stored undiluted. 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>Health And Safety Information</b> | <p>Material Safety Datasheet documentation #10040 available at:<br/> <a href="https://www.bio-rad-antibodies.com/SDS/MCA4697T">https://www.bio-rad-antibodies.com/SDS/MCA4697T</a><br/> 10040</p>   |
| <b>Regulatory</b>                    | For research purposes only  |

## Related Products

### Recommended Secondary Antibodies

|   |                      |
|---|----------------------|
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>  |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>  |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a> |

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### **Recommended Negative Controls**

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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