

## Datasheet: MCA4634PE

|                      |                          |
|----------------------|--------------------------|
| <b>Description:</b>  | MOUSE ANTI RAT CD252:RPE |
| <b>Specificity:</b>  | CD252                    |
| <b>Other names:</b>  | OX40 LIGAND              |
| <b>Format:</b>       | RPE                      |
| <b>Product Type:</b> | Monoclonal Antibody      |
| <b>Clone:</b>        | ATM-2                    |
| <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.

|                                |   |                                  |                          |
|--------------------------------|---|----------------------------------|--------------------------|
| <b>Target Species</b>          | Rat   |                                  |                          |
| <b>Product Form</b>            | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized                               |                                  |                          |
| <b>Reconstitution</b>          | Reconstitute with 1ml distilled water   |                                  |                          |
| <b>Max Ex/Em</b>               | <b>Fluorophore</b>  | <b>Excitation Max (nm)</b>       | <b>Emission Max (nm)</b> |
|                                | RPE 488nm laser   | 496                              | 578                      |
| <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<br>5% Sucrose   |                                  |                          |
| <b>Immunogen</b>               | ACI-S1 rat T-cell lymphoma cell line.   |                                  |                          |
| <b>External Database Links</b> | <b>UniProt:</b>   |                                  |                          |
|                                | <a href="https://www.uniprot.org/entry/Q9Z2P3">Q9Z2P3</a>                                     | <a href="#">Related reagents</a> |                          |

**Entrez Gene:**[89814](#) Tnfsf4 [Related reagents](#)

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**Synonyms** Ox40l, Txgp1

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**RRID** AB\_10614710

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**Specificity** **Mouse anti Rat CD252 antibody, clone ATM-2** recognizes rat CD252, otherwise known as OX40L or CD134L, a ~22 kDa type II transmembrane glycoprotein and member of the TNF superfamily, expressed by antigen-presenting cells including activated dendritic cells and B cells, and also by vascular endothelium.

The interaction of CD252 with its receptor OX40/CD134, acts as a co-stimulator of T cell activation, proliferation and both Th1 and Th2 cytokine production, and is also important in activated B cell proliferation and secretion of immunoglobulins (Igs). CD252/OX40 interaction has been implicated in HTLV-1 associated diseases including myelopathy and adult T cell leukaemia, and also with the autoimmune diseases rheumatoid arthritis and inflammatory bowel disease.

Mouse anti Rat CD252 antibody, clone ATM-2 has been shown to block the co-stimulatory activity of CD252 on rat T cell proliferation.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**References**

1. Yuan, X. *et al.* (2003) The role of the CD134-CD134 ligand costimulatory pathway in alloimmune responses *in vivo*. [J Immunol. 170 \(6\): 2949-55.](#)
2. Macphee, I.A. *et al.* (2006) Blockade of OX40-ligand after initial triggering of the T helper 2 response inhibits mercuric chloride-induced autoimmunity. [Immunology. 117 \(3\): 402-8.](#)

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**Storage** Prior to reconstitution store at +4°C.  
After reconstitution 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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10075 available at:  
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA1209PE\)](#)**North & South America** Tel: +1 800 265 7376  
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