

Datasheet: MCA4634

**BATCH NUMBER 153125**

<b>Description:</b>	MOUSE ANTI RAT CD252
<b>Specificity:</b>	CD252
<b>Other names:</b>	OX40 LIGAND
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ATM-2
<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)	▪			
ELISA	▪			50ug/ml - 0.1ug/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.

(1) **Bio-Rad recommends a three layer detection system using [STAR11B](#) followed by [STAR4A](#), to enhance the staining of CD252 with MCA4634.**

<b>Target Species</b>	Rat
<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>	ACI-S1 rat T-cell lymphoma cell line.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9Z2P3</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">89814</a>    Tnfsf4    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Ox40l, Txgp1
<b>RRID</b>	AB_10597959
<b>Specificity</b>	<p><b>Mouse anti Rat CD252 antibody, clone ATM-2</b> 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.</p> <p>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.</p> <p>Mouse anti Rat CD252 antibody, clone ATM-2 has been shown to block the co-stimulatory activity of CD252 on rat T cell proliferation.</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>Yuan, X. <i>et al.</i> (2003) The role of the CD134-CD134 ligand costimulatory pathway in alloimmune responses <i>in vivo</i>. <a href="#">J Immunol. 170 (6): 2949-55.</a></li> <li>Macphee, I.A. <i>et al.</i> (2006) Blockade of OX40-ligand after initial triggering of the T helper 2 response inhibits mercuric chloride-induced autoimmunity. <a href="#">Immunology. 117 (3): 402-8.</a></li> </ol>
<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. 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>	Material Safety Datasheet documentation #10040 available at:

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</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...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

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

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