

## Datasheet: MCA4634A647

<b>Description:</b>	MOUSE ANTI RAT CD252:Alexa Fluor® 647
<b>Specificity:</b>	CD252
<b>Other names:</b>	OX40 LIGAND
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ATM-2
<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	■			

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 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 0.05mg/ml		
<b>Immunogen</b>	ACI-S1 rat T-cell lymphoma cell line.		
<b>External Database Links</b>	<b>UniProt:</b>		
	<a href="#">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\_10675613

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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**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. This product is photosensitive and should be protected from light.  
Avoid repeated freezing and thawing as this may denature the antibody. 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 #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1209A647\)](#)

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

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