

## Datasheet: MCA273GA

**BATCH NUMBER 155510**

<b>Description:</b>	MOUSE ANTI RAT CD25
<b>Specificity:</b>	CD25
<b>Other names:</b>	IL-2R ALPHA CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-39
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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	▪			1/10 - 1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
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.

(1) **PLP fixation is recommended, see [Whiteland, J.L. et al.\(1995\)](#) for details.**

<b>Target Species</b>	Rat
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Stimulated Rat T cells
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P26897</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">25704</a>    IL2ra    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2125464
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the NS0/1 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Rat CD25 antibody, clone OX-39</b> recognizes the alpha chain of rat CD25, otherwise known as IL-2 receptor alpha, a ~55 kDa type I membrane glycoprotein, expressed by activated T cells but not resting lymphocytes. CD25 is also expressed by dendritic cells found in the thymus medulla.</p> <p>Mouse anti Rat CD25 antibody, clone OX-39 has been described reacting with paraffin-embedded material following PLP fixation (periodate-lysine-paraformaldehyde).</p> <p>Mouse anti Rat CD25 antibody, clone OX-39 has been shown to weakly inhibit the binding of IL-2 to Con-A stimulated spleen blasts (<a href="#">Paterson et al. 1987</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Paterson, D.J. <i>et al.</i> (1987) Antigens of activated rat T lymphocytes including a molecule of 50,000 Mr detected only on CD4 positive T blasts. <a href="#">Mol Immunol. 24 (12): 1281-90.</a></li> <li>2. Charteris DG &amp; Lightman SL (1993) <i>In vivo</i> lymphokine production in experimental autoimmune uveoretinitis. <a href="#">Immunology. 78 (3): 387-92.</a></li> <li>3. Hayosh, N.S. &amp; Swanborg, R.H. (1987) Autoimmune effector cells. IX. Inhibition of adoptive transfer of autoimmune encephalomyelitis with a monoclonal antibody specific for interleukin 2 receptors. <a href="#">J Immunol. 138 (11): 3771-5.</a></li> <li>4. Tellides, G. <i>et al.</i> (1987) Functional blocking of the interleukin-2 receptor (IL-2R) may be important in the efficacy of IL-2R antibody therapy. <a href="#">Transplant Proc. 19 (5): 4231-3.</a></li> <li>5. Signore, A. <i>et al.</i> (1987) Detection of activated lymphocytes in endocrine pancreas of BB/W rats by injection of 123I-interleukin-2: an early sign of type 1 diabetes. <a href="#">Lancet. 2 (8558): 537-40.</a></li> <li>6. Whiteland, J.L. <i>et al.</i> (1995) Immunohistochemical detection of T-cell subsets and other</li> </ol>

- leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. [J Histochem Cytochem. 43 \(3\): 313-20.](#)
7. Schwartzkopff, J. *et al.* (2010) NK cell depletion delays corneal allograft rejection in baby rats. [Mol Vis. 16: 1928-35.](#)
  8. Banerjee, S. *et al.* (2003) Development of organised conjunctival leucocyte aggregates after corneal transplantation in rats. [Br J Ophthalmol. 87 \(12\): 1515-22.](#)
  9. Fujiki, M. *et al.* (2010) Induced tolerance to rat liver allografts involves the apoptosis of intragraft T cells and the generation of CD4(+)CD25(+)FoxP3(+) T regulatory cells. [Liver Transpl. 16: 147-54.](#)
  10. Ghiringhelli, F. (2005) Tumor cells convert immature myeloid dendritic cells into TGF-beta-secreting cells inducing CD4+CD25+ regulatory T cell proliferation. [J Exp Med. 202: 919-29.](#)
  11. Aricha, R. *et al.* (2016) Suppression of experimental autoimmune myasthenia gravis by autologous T regulatory cells. [J Autoimmun. 67: 57-64.](#)
  12. Lühder, F. *et al.* (2017) Laquinimod enhances central nervous system barrier functions. [Neurobiol Dis. 102: 60-9.](#)
  13. Sun, J. *et al.* (2017) Pentapeptide PLNPK ameliorates adjuvant arthritis and inhibits T cell activation by suppressing Lck and PI3K activities [Int J Clin Exp Pathol. 10\(5\): 5252-62.](#)
  14. Timrott, K. *et al.* (2020) The importance of MHC class II in allogeneic bone marrow transplantation and chimerism-based solid organ tolerance in a rat model. [PLoS One. 15 \(5\): e0233497.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA273GA>  
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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...)

[FITC](#)

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](#)

## Recommended Negative Controls

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

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

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Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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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://bio-rad-antibodies.com/datasheets)

'M373058:200817'

Printed on 12 Aug 2023

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