

Datasheet: MCA273PE

BATCH NUMBER 151680

Description:	MOUSE ANTI RAT CD25:RPE
Specificity:	CD25
Other names:	IL-2R ALPHA CHAIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	OX-39
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Rat		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		

5% Sucrose

Immunogen	Stimulated Rat T cells
------------------	------------------------

External Database Links	UniProt: P26897 Related reagents
	Entrez Gene: 25704 Ii2ra Related reagents

RRID	AB_321548
-------------	-----------

Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the NS0/1 mouse myeloma cell line.
------------------------	---

Specificity	<p>Mouse anti Rat CD25 antibody, clone OX-39 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 (Paterson et al. 1987).</p>
--------------------	---

Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
-----------------------	---

References	<ol style="list-style-type: none">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. Mol Immunol. 24 (12): 1281-90.2. Charteris DG & Lightman SL (1993) <i>In vivo</i> lymphokine production in experimental autoimmune uveoretinitis. Immunology. 78 (3): 387-92.3. Hayosh, N.S. & Swanborg, R.H. (1987) Autoimmune effector cells. IX. Inhibition of adoptive transfer of autoimmune encephalomyelitis with a monoclonal antibody specific for interleukin 2 receptors. J Immunol. 138 (11): 3771-5.4. 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. Transplant Proc. 19 (5): 4231-3.5. 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. Lancet. 2 (8558): 537-40.6. Whiteland, J.L. <i>et al.</i> (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. J Histochem Cytochem. 43 (3): 313-20.7. Schwartzkopff, J. <i>et al.</i> (2010) NK cell depletion delays corneal allograft rejection in baby rats. Mol Vis. 16: 1928-35.8. Fujiki, M. <i>et al.</i> (2010) Induced tolerance to rat liver allografts involves the apoptosis of
-------------------	--

- intra-graft T cells and the generation of CD4(+)CD25(+)FoxP3(+) T regulatory cells. [Liver Transpl. 16: 147-54.](#)
9. 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.](#)
 10. Aricha, R. *et al.* (2016) Suppression of experimental autoimmune myasthenia gravis by autologous T regulatory cells. [J Autoimmun. 67: 57-64.](#)
 11. Lühder, F. *et al.* (2017) Laquinimod enhances central nervous system barrier functions. [Neurobiol Dis. 102: 60-9.](#)
 12. 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.](#)
 13. 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.](#)
 14. Koppe, C. *et al.* (2021) Local Inflammatory Response after Intramuscularly Implantation of Anti-Adhesive Plasma-Fluorocarbon-Polymer Coated Ti6Al4V Discs in Rats. [Polymers \(Basel\). 13 \(16\): 2684.](#)
 15. Schmiedl, A. *et al.* (2021) Lung development and immune status under chronic LPS exposure in rat pups with and without CD26/DPP4 deficiency. [Cell Tissue Res. 386 \(3\): 617-36.](#)
 16. Zakerkish, F. *et al.* (2021) Differential effects of the immunosuppressive calcineurin inhibitors cyclosporine-A and tacrolimus on ovulation in a murine model. [Hum Reprod Open. 2021 \(2\): hoab012.](#)
 17. Zhou, X. *et al.* (2022) Dusp6 deficiency attenuates neutrophil-mediated cardiac damage in the acute inflammatory phase of myocardial infarction. [Nat Commun. 13 \(1\): 6672.](#)

Storage

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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #20487 available at: <https://www.bio-rad-antibodies.com/SDS/MCA273PE>
20487

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA1209PE\)](#)

North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

To
find a

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M375527:210104'

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)