Datasheet: MCA1260PE

BATCH NUMBER 145190

Description:	RAT ANTI MOUSE CD25:RPE
Specificity:	CD25
Other names:	IL-2R ALPHA CHAIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	PC61.5.3
Isotype:	IgG1
Quantity:	0.5 ml

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

Mouse

Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid

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

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.02% Sodium Azide
0.5% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

Immunogen	B6.1 CTL cell line.
External Database Links	**UniProt:** P01590 Related reagents **Entrez Gene:** 16184 Il2ra Related reagents
Synonyms	Il2r
RRID	AB_321537
Fusion Partners	Spleen cells from immunized OFA rats were fused with cells of the P3X63Ag8.653 mouse myeloma cell line.
Specificity	**Rat anti Mouse CD25 antibody, clone PC61.5.3** reacts with the low affinity alpha chain of the interleukin-2 receptor present on activated T and B cells in mice. Rat anti Mouse CD25 antibody, clone PC61.5.3 is reported to inhibit IL-2 binding and IL-2 dependent proliferation.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).
References	1. Moreau, J.L. *et al.* (1987) Monoclonal antibodies identify three epitope clusters on the mouse p55 subunit of the interleukin 2 receptor: relationship to the interleukin 2-binding site. Eur J Immunol. 17 (7): 929-35. 2. Hashimoto, N. *et al.* (1986) Dissociation of interleukin 2-dependent and -independent B cell proliferation with monoclonal anti-interleukin 2 receptor antibody. Eur J Immunol. 16 (3): 317-20. 3. Lowenthal, J.W. *et al.* (1985) High and low affinity IL 2 receptors: analysis by IL 2 dissociation rate and reactivity with monoclonal anti-receptor antibody PC61. J Immunol. 135 (6): 3988-94. 4. Ceredig, R. *et al*. (1985) Expression of interleukin-2 receptor as a differentiation marker on intrathymic stem cells. Nature 314: 98-100. 5. Yaqoob, P. & Calder, P.C. (1997) Glutamine requirement of proliferating T lymphocytes. Nutrition. 13 (7-8): 646-51. 6. Scotland, R.S. *et al.* (2011) Sex differences in resident immune cell phenotype underlie more efficient acute inflammatory responses in female mice. Blood. 118 (22): 5918-27. 7. Karali, D. *et al.* (2016) T cell regulation by *Phlomis lanata* protein extracts in mice. Pharm Biol. 54 (2): 207-14. 8. Szuster-Ciesielska, A. *et al.* (2019) Immunogenic Evaluation of Ribosomal P-Protein Antigen P0, P1, and P2 and Pentameric Protein Complex P0-$(P1\text{-}P2)_2$ of *Plasmodium falciparum* in a Mouse Model. J Immunol Res. 2019: 9264217. 9. Curina, G. *et al.* (2018) Evaluation of immune responses in mice and sheep inoculated with a live attenuated *Brucella melitensis.* REV1 vaccine produced in bioreactor. Vet

Immunol Immunopathol. 198: 44-53.
10. Arad, T. *et al.* (2021) CD200 -dependent and -independent immune-modulatory functions of neural stem cells. Stem Cell Res. 56: 102559.

Storage	Store at +4ºC. 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	6 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1260PE 10041
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com
Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com
Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 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
'M361280:200210'

Printed on 08 Mar 2024