Datasheet: MCA1260G

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

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
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.

Target Species	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN_3)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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_2125347
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 10µl of the suggested working dilution to label 1 x 10^6 cells in 100µl.
References	1. Ceredig, R. *et al*. (1985) Expression of interleukin-2 receptor as a differentiation marker on intrathymic stem cells. Nature 314: 98-100. 2. 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. 3. 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. 4. 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. 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.
11. Roca, C.P. *et al.* (2023) A cross entropy test allows quantitative statistical comparison of t-SNE and UMAP representations Cell Reports Methods. 3 (1): 100390.

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1260G 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550, DyLight®650, DyLight®800
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

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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
'M408774:221014'

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