

Datasheet: MCA1260SBV440

Description:	RAT ANTI MOUSE CD25:StarBright Violet 440
Specificity:	CD25
Other names:	IL-2R ALPHA CHAIN
Format:	StarBright Violet 440
Product Type:	Monoclonal Antibody
Clone:	PC61.5.3
Isotype:	IgG1
Quantity:	100 TESTS/0.5ml

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 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 conjugated to StarBright Violet 440 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Violet 440	385	438
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
	0.1% Pluronic F68		
	0.1% PEG 3350		
Immunogen	B6.1 CTL cell line.		

**External Database
Links**

UniProt:

[P01590](#) [Related reagents](#)

Entrez Gene:

[16184](#) IL2ra [Related reagents](#)

Synonyms

IL2r

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 5ul of the suggested working dilution to label 10⁶ cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

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-P2)₂ of *Plasmodium falciparum* in a Mouse Model. [J Immunol Res. 2019: 9264217.](#)

Storage

Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted.

Guarantee

12 months from date of despatch

Acknowledgements

This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts

**Health And Safety
Information**

Material Safety Datasheet documentation #20438 available at:
20438: <https://www.bio-rad-antibodies.com/uploads/MSDS/20438.pdf>

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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