

Datasheet: MCA2808C

Description:	MOUSE ANTI HUMAN CD25:RPE-Cy5
Specificity:	CD25
Other names:	IL-2R ALPHA CHAIN
Format:	RPE-CY5
Product Type:	Monoclonal Antibody
Clone:	BC96
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 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

Human

Species Cross Reactivity

Reacts with: Cynomolgus monkey, Rhesus Monkey
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG conjugated to RPE-Cy5 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE-Cy5 488nm laser	496	667

Preparation

Purified IgG prepared by affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative 0.09% Sodium Azide
Stabilisers 0.2% Bovine Serum Albumin

External Database Links

UniProt:

[P01589](#) [Related reagents](#)

Entrez Gene:

[3559](#) IL2RA [Related reagents](#)

RRID AB_1101641

Specificity

Mouse anti Human CD25 antibody, clone BC96 recognizes the human CD25 cell surface antigen, also known as the Interleukin-2 receptor subunit alpha or TAC antigen.

CD25 is derived from a 272 amino acid precursor to yield a 251 amino acid monomeric receptor of ~53kDa which acts as the low affinity receptor for IL-2. CD25 can also form a heterodimer with [CD122](#) to form the high affinity receptor for IL-2. CD25 is expressed by activated lymphocytes ([Jackson et al. 1990](#), [Butcher et al. 1990](#)). Defects in CD4+ CD25+ regulatory T cells have been implicated in the pathogenesis of autoimmune diabetes ([Lindley et al. 2005](#)) and other autoimmune conditions ([Sakaguchi et al. 1995](#)).

Flow Cytometry

Use 5ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood.

References

1. Chapel, A. *et al.* (1992) Differential human immunodeficiency virus expression in CD4+ cloned lymphocytes: from viral latency to replication. [J Virol. 66 \(6\): 3966-70.](#)
 2. Ernst, C.W. *et al.* (2007) Diminished forkhead box P3/CD25 double-positive T regulatory cells are associated with the increased nuclear factor-kappaB ligand (RANKL+) T cells in bone resorption lesion of periodontal disease. [Clin Exp Immunol. 148 \(2\): 271-80.](#)
 3. Barberá A *et al.* (2013) APL-1, an altered peptide ligand derived from human heat-shock protein 60, selectively induces apoptosis in activated CD4+ CD25+ T cells from peripheral blood of rheumatoid arthritis patients. [Int Immunopharmacol. 17 \(4\): 1075-83.](#)
 4. Duggleby, R.C. & Madrigal, J.A. (2014) Methods of detection of immune reconstitution and T regulatory cells by flow cytometry. [Methods Mol Biol. 1109: 159-86.](#)
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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

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

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Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

North & South Tel: +1 800 265 7376

America 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](https://www.bio-rad-antibodies.com/datasheets)

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