

Datasheet: MCA2808C

BATCH NUMBER 171129

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	<p>UniProt: P01589 Related reagents</p> <p>Entrez Gene: 3559 IL2RA Related reagents</p>
RRID	AB_1101641
Specificity	<p>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.</p> <p>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).</p>
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood.
References	<ol style="list-style-type: none"> 1. Chapel, A. <i>et al.</i> (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. <i>et al.</i> (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 <i>et al.</i> (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.
Storage	<p>Store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>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.</p>
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:
<https://www.bio-rad-antibodies.com/SDS/MCA2808C>
10041

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

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

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

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

'M361253:200210'

Printed on 12 Aug 2023

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