

## Datasheet: MCA2808C

<b>Description:</b>	MOUSE ANTI HUMAN CD25:RPE-Cy5
<b>Specificity:</b>	CD25
<b>Other names:</b>	IL-2R ALPHA CHAIN
<b>Format:</b>	RPE-CY5
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BC96
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human		
<b>Species Cross Reactivity</b>	Reacts with: Cynomolgus monkey, Rhesus Monkey <b>N.B.</b> Antibody reactivity and working conditions may vary between species.		
<b>Product Form</b>	Purified IgG conjugated to RPE-Cy5 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE-Cy5 488nm laser	496	667
<b>Preparation</b>	Purified IgG prepared by affinity chromatography		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	0.2% Bovine Serum Albumin		

### External Database Links

#### UniProt:

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

#### Entrez Gene:

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

<b>Specificity</b>	<p><b>Mouse anti Human CD25 antibody, clone BC96</b> 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 <a href="#">CD122</a> to form the high affinity receptor for IL-2. CD25 is expressed by activated lymphocytes (<a href="#">Jackson et al. 1990</a>, <a href="#">Butcher et al. 1990</a>). Defects in CD4+ CD25+ regulatory T cells have been implicated in the pathogenesis of autoimmune diabetes (<a href="#">Lindley et al. 2005</a>) and other autoimmune conditions (<a href="#">Sakaguchi et al. 1995</a>).</p>
<b>Flow Cytometry</b>	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Chapel, A. <i>et al.</i> (1992) Differential human immunodeficiency virus expression in CD4+ cloned lymphocytes: from viral latency to replication. <a href="#">J Virol. 66 (6): 3966-70.</a></li> <li>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. <a href="#">Clin Exp Immunol. 148 (2): 271-80.</a></li> <li>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. <a href="#">Int Immunopharmacol. 17 (4): 1075-83.</a></li> </ol>
<b>Storage</b>	<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>
<b>Shelf Life</b>	Please see label for expiry date.
<b>Acknowledgements</b>	Cy® and CyDye® are registered trademarks of GE Healthcare
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation available at:</p> <p>Material Safety Datasheet Documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a></p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

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

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

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