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## IL2-Rα/CD25 (BC96) Mouse mAb (PE-Cy7<sup>®</sup> Conjugate)

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> FC-L	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1 kappa	<b>UniProt ID:</b> #P01589	<b>Entrez-Gene Id:</b> 3559
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Live)	<b>Dilution</b> 1:20
<b>Storage</b>	Supplied in 10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% NaN <sub>3</sub> , 0.1% gelatin, pH 7.2. This product is stable for 6 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
<b>Specificity/Sensitivity</b>	IL2-Rα/CD25 (BC96) Mouse mAb (PE-Cy7 <sup>®</sup> Conjugate) recognizes endogenous levels of total IL2-Rα/CD25 protein. This antibody detects an epitope within the extracellular domain.	
<b>Source / Purification</b>	This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to PE-Cy7 <sup>®</sup> and tested in-house for direct flow cytometry analysis in human cells.	
<b>Background</b>	Interleukin-2 (IL-2) is a T cell stimulatory cytokine best known for inducing T cell proliferation and NK cell proliferation and activation (1,2). IL-2 also promotes peripheral development of regulatory T cells (Tregs) (3,4). Conversely, IL-2 is involved in the activation-induced cell death (AICD) that is observed post T cell expansion by increasing levels of Fas on CD4 <sup>+</sup> T cells (5). The effects of IL-2 are mediated through a trimeric receptor complex consisting of IL-2Rα, IL-2Rβ, and the common gamma chain, γc (1,2). IL-2Rα binds exclusively to IL-2 with low affinity and increases the binding affinity of the whole receptor complex including IL-2Rβ and γc subunits. IL-15 also binds to IL-2Rβ (1,2). γc is used by other cytokines, including IL-4, IL-7, IL-9, IL-15, and IL-21 (1,2). Binding of IL-2 initiates signaling cascades involving Jak1, Jak3, Stat5, and the PI3K/Akt pathways (1,2).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Ma, A. et al. (2006) <i>Annu Rev Immunol</i> 24, 657-79.</li> <li>2. Gaffen, S.L. and Liu, K.D. (2004) <i>Cytokine</i> 28, 109-23.</li> <li>3. Fehérvári, Z. et al. (2006) <i>Trends Immunol</i> 27, 109-11.</li> <li>4. Antony, P.A. et al. (2006) <i>J Immunol</i> 176, 5255-66.</li> <li>5. Jaleco, S. et al. (2003) <i>J Immunol</i> 171, 61-8.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-L:</b> Flow Cytometry (Live)
<b>Cross-Reactivity Key</b>	<b>H:</b> Human
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