



## CD25 Antibody [BC96] (PE)

CATALOG NUMBER: 76-501

### Specifications

<b>SPECIES REACTIVITY:</b>	Human
<b>TESTED APPLICATIONS:</b>	FACS
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>SPECIFICITY:</b>	The BC96 monoclonal antibody specifically reacts with the 55 kDa type I transmembrane glycoprotein known as the interleukin-2 receptor alpha (IL-2R alpha, also known as CD25).
<b>HOST SPECIES:</b>	Mouse

### Properties

<b>PURIFICATION:</b>	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
<b>PHYSICAL STATE:</b>	liquid
<b>BUFFER:</b>	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
<b>CONCENTRATION:</b>	5 uL (0.06 ug) / test
<b>STORAGE CONDITIONS:</b>	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	Mouse IgG1, kappa
<b>CONJUGATE:</b>	PE

### Additional Info

<b>ALTERNATE NAMES:</b>	p55, CD25, IL2R, TCGFR, IDDM10, IL2RA
<b>OFFICIAL SYMBOL:</b>	IL2RA
<b>GENE ID:</b>	3559

### Background

<b>BACKGROUND:</b>	The BC96 monoclonal antibody specifically reacts with the 55 kDa type I transmembrane glycoprotein known as the interleukin-2 receptor alpha (IL-2R alpha, also known as CD25). CD25 is expressed by the early progenitors of T and B lymphocytes lineage, and by activated mature T and B lymphocytes. CD25 is a low affinity interleukin-2 receptor, but its association with the IL-2 receptor beta chain (CD122) and the common gamma chain (CD 132) results in a high affinity IL-2R complex. CD25 plays an important role in B and T cell proliferation, differentiation, and activation.
<b>REFERENCES:</b>	<p>1) Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York</p> <p>2) Zhang, B., Zhang, X., Tang, F. L., Zhu, L. P., Liu, Y., Lipsky, P. E. (2008). Clinical significance of increased CD4+ CD25 Foxp3+ T cells in patients with new-onset systemic lupus erythematosus. Annals of the rheumatic diseases, 67(7), 1037-1040.</p> <p>3) Chapel, A., Bensussan, A., Vilmer, E., Dormont, D. (1992). Differential human immunodeficiency virus expression in CD4+ cloned lymphocytes: from viral latency to replication. Journal of virology, 66(6), 3966-3970.</p>

