



## CD4 Antibody [OKT4] (APC)

CATALOG NUMBER: 76-331

### 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 OKT4 monoclonal antibody specifically binds to the CD4 receptor for the human immunodeficiency virus (HIV).
<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 µL (0.125 µg) / 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 IgG2b, kappa
<b>CONJUGATE:</b>	APC

### Additional Info

<b>ALTERNATE NAMES:</b>	CD4mut, CD4
<b>OFFICIAL SYMBOL:</b>	CD4
<b>GENE ID:</b>	920

### Background

<b>BACKGROUND:</b>	The OKT4 monoclonal antibody specifically binds to the CD4 receptor for the human immunodeficiency virus (HIV). CD4 is a 59 kDa single-chain transmembrane glycoprotein that expressed on the surface of most of the thymocytes, T-helper cells, and in low levels on monocytes and macrophages. CD4 is a co-receptor in the antigen-induced T cell activation (together with the MHC class II). The OKT4 and the RPA-T4 monoclonal antibodies recognize different epitopes of CD4 and they do not exhibit cross-block binding.
<b>REFERENCES:</b>	<p>1) Reinherz, E. L., Kung, P. C., Goldstein, G., Schlossman, S. F. (1979). Separation of functional subsets of human T cells by a monoclonal antibody. <i>Proceedings of the National Academy of Sciences</i>, 76(8), 4061-4065.</p> <p>2) Knapp W(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.</p> <p>3) Bour, S. T. E. P. H. A. N. E., Boulterice, F. R. A. N. C. O. I. S., Wainberg, M. A. (1991). Inhibition of gp160 and CD4 maturation in U937 cells after both defective and productive infections by human immunodeficiency virus type 1. <i>Journal of virology</i>, 65(12), 6387-6396.</p>

**FOR RESEARCH USE ONLY**

