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CD4 Antibody [OKT4] (APC)

CATALOG NUMBER: 76-330

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The OKT4 monoclonal antibody specifically binds to the CD4 receptor for the human immunodeficiency virus (HIV).
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
CONCENTRATION:	5 µL (0.125 µg) / test
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG2b, kappa
CONJUGATE:	APC

Additional Info

ALTERNATE NAMES:	CD4mut, CD4
OFFICIAL SYMBOL:	CD4
GENE ID:	920

Background

BACKGROUND:	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.
REFERENCES:	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.Proceedings of the National Academy of Sciences,76(8), 4061-4065.
	2) Knapp W(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
	3) Bour, S. T. E. P. H. A. N. E., Boulerice, 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.Journal of virology,65(12), 6387-6396.

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