



CD4 Antibody [OKT4] (Violet-450)

CATALOG NUMBER: 76-321

Specifications

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 uL (0.25 ug) / 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:	Violet-450

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. BG Violet 450 conjugate is an alternative to the Pacific Blue, eFluor 450, or BD Horizon V450 dyes. It is excited by the violet (405 nm) laser, with a peak emission of 450nm.
REFERENCES:	<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>

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