



CD4 Antibody [RPA-T4] (PerCP-Cy5.5)

CATALOG NUMBER: 76-361

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The RPA-T4 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 (0.125 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 IgG1, kappa
CONJUGATE:	PerCP-Cy5.5

Additional Info

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

Background

BACKGROUND:	The RPA-T4 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 RPA-T4 antibody is capable of blocking HIV binding and inhibiting syncytium formation, by binding to the D1 domain of the CD4 antigen. The OKT4 and the RPA-T4 monoclonal antibodies recognize different epitopes of CD4 and they do not exhibit cross-block binding.
REFERENCES:	1) Knapp W(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989. 2) Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York

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