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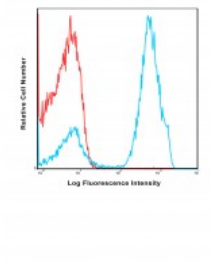
CD3 Antibody [UCHT1] (PE-Cy7)

CATALOG NUMBER: 76-294



Human peripheral blood lymphocytes were stained with PE-Cy7 UCHT1 with relevant isotype control in Red.

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The UCHT1 monoclonal antibody specifically reacts with the epsilon chain of the CD3/T lymphocyte antigen receptor complex.
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 (0.5 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:	PE-Cy7

Additional Info

ALTERNATE NAMES:	T3E, TCRE, IMD18, CD3E
OFFICIAL SYMBOL:	CD3E
GENE ID:	916

Background

BACKGROUND:	The UCHT1 monoclonal antibody specifically reacts with the epsilon chain of the CD3/T lymphocyte antigen receptor complex. The CD3 complex contains gamma, delta, and epsilon chains, and it is part of the TCR

	complex, expressed by all mature T lymphocytes and by the thymocyte lineage. CD3 enhances the antigen recognition by signal transduction. Unlike HIT3a, another specific antibody of CD3, the UCHT1 antibody can stain both the surface and intracellular CD3epsilon. The immobilized UCHT1 can cross-link with the TCR complex, enhancing cellular activation and proliferation.
REFERENCES:	1) Knapp W (1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
	2) McMichael, A. J. (1987). Leucocyte typing III.Oxford University Press, Oxford. Norton AJ, Isaacson PG (1985)
	3) Beverley, P. C., Callard, R. E. (1981). Distinctive functional characteristics of human T lymphocytes defined by E rosetting or a monoclonal anti-T cell antibody.European journal of immunology,11(4), 329-334.

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