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CD3 Antibody [Hit3a] (APC)

CATALOG NUMBER: 76-218

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The Hit3a 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 (0.25 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 IgG2a, kappa
CONJUGATE:	APC

Additional Info

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

Background

BACKGROUND:	The Hit3a monoclonal antibody specifically reacts with the epsilon chain of the CD3/T lymphocyte antigen receptor complex. The CD3 complex 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.The HIT3a antibody cross-links with the TCR complex, initiating the cellular activation and proliferation, but it cannot be used for intracellular CD3 staining, as it is able to stain only the surface CD3 complex.
REFERENCES:	1) McMichael, A. J. (1987). Leucocyte typing III.Oxford University Press, Oxford. Norton AJ, Isaacson PG (1985)
	2) Knapp W(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
	3) Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York
	4) Lanier, L. L., Allison, J. P., Phillips, J. H. (1986). Correlation of cell surface antigen expression on human thymocytes by multi-color flow cytometric analysis: implications for differentiation.The Journal of Immunology,137(8), 2501-2507.

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