



## CD3 Antibody [UCHT1] (FITC)

CATALOG NUMBER: 76-288

### Specifications

<b>SPECIES REACTIVITY:</b>	Human
<b>TESTED APPLICATIONS:</b>	FACS
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>SPECIFICITY:</b>	The UCHT1 monoclonal antibody specifically reacts with the epsilon chain of the CD3/T lymphocyte antigen receptor complex.
<b>HOST SPECIES:</b>	Mouse

### Properties

<b>PURIFICATION:</b>	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
<b>PHYSICAL STATE:</b>	liquid
<b>BUFFER:</b>	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
<b>CONCENTRATION:</b>	5 uL (1 ug) / test
<b>STORAGE CONDITIONS:</b>	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	Mouse IgG1, kappa
<b>CONJUGATE:</b>	FITC

### Additional Info

<b>ALTERNATE NAMES:</b>	T3E, TCRE, IMD18, CD3E
<b>OFFICIAL SYMBOL:</b>	CD3E
<b>GENE ID:</b>	916

### Background

<b>BACKGROUND:</b>	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.
<b>REFERENCES:</b>	<p>1) Knapp W (1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.</p> <p>2) McMichael, A. J. (1987). Leucocyte typing III. Oxford University Press, Oxford. Norton AJ, Isaacson PG (1985)</p> <p>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.</p>

**FOR RESEARCH USE ONLY**

