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## Monoclonal Mouse Antibody to Human CD3 - Azide Free

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<b>Alternate names:</b>	CD247, CD3 delta chain, CD3 epsilon chain, CD3 gamma chain, CD3 zeta chain, CD3D, CD3E, CD3G, CD3Z, T-cell surface glycoprotein CD3, T3D, T3G, T3Z, TCRZ
<b>Catalog No.:</b>	SM1057A
<b>Quantity:</b>	1 mg
<b>Concentration:</b>	1 mg/ml
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	UCHT-1
<b>Immunogen:</b>	Human infant thymocytes and lymphocytes from a patient with Sezary Syndrome.
<b>Applications:</b>	Flow cytometry (Use 10ul of a 1/50-1/100 dilution to label 100 µl of whole blood). Immunohistochemistry on frozen sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	UCH-T1 recognises a surface protein of peripheral blood T-cells of 19 kDa molecular weight. As a pan T-cell marker this antibody is present on more than 95% of circulation human peripheral T cells. This antibody stimulates T-cell proliferation in vitro. This clone is reported to cross react with chimpanzee (12) and Cynomolgus monkey (13).
<b>Storage:</b>	Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: 12 month from despatch
<b>General Readings:</b>	<ol style="list-style-type: none"><li>1. Beverley, P.C.L. and Callard, R.E. (1981). Distinctive functional characteristics of human T lymphocytes defined by E rosetting or a monoclonal anti T-cell antibody. <i>Eur. J. Immunol.</i> 11: 329-34.</li><li>2. Kung P, Goldstein G, Reinherz EL, Schlossman SF. Monoclonal antibodies defining distinctive human T cell surface antigens. <i>Science.</i> 1979 Oct 19;206(4416):347-9. PubMed PMID: 314668.</li><li>3. Clevers H, Dunlap S, Terhorst C. The transmembrane orientation of the epsilon chain of the TcR/CD3 complex. <i>Eur J Immunol.</i> 1988 May;18(5):705-10. PubMed PMID: 2967760.</li><li>4. Clevers H, Alarcon B, Wileman T, Terhorst C. The T cell receptor/CD3 complex: a dynamic protein ensemble. <i>Annu Rev Immunol.</i> 1988;6:629-62. PubMed PMID: 3289580.</li><li>5. Meuer, S.C., Acuto, O., Hussey, R.E., et al. (1983). Evidence for the T3-associated 90 k heterodimer as the T cell antigen receptor. <i>Nature</i> 303: 808-10.</li><li>6. Clark EA, Ledbetter JA. Leukocyte cell surface enzymology: CD45 (LCA, T200) is a protein tyrosine phosphatase. <i>Immunol Today.</i> 1989 Jul;10(7):225-8. PubMed PMID: 2553046.</li><li>7. Campana D, Thompson JS, Amlot P, Brown S, Janossy G. The cytoplasmic expression of CD3 antigens in normal and malignant cells of the T lymphoid lineage. <i>J Immunol.</i> 1987 Jan 15;138(2):648-55. PubMed PMID: 3098852.</li></ol>

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

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8. Erber, W.N., Pinching, A.J., Mason, D.Y. (1984). Immunocytochemical detection of T cell and B cell populations in routine blood smears. Lancet i: 1042-5.
9. Erber WN, Mynheer LC, Mason DY. APAAP labelling of blood and bone-marrow samples for phenotyping leukaemia. Lancet. 1986 Apr 5;1(8484):761-5. PubMed PMID: 2870268.
10. Denning, S.M., Tuck, D.T., Singer, K.H., Haynes, B.F. (1987). Activation of human thymocytes via CD3 and CD2 molecules. In McMichael, A.J. et al. Leucocyte Typing III: White Cell Differentiation Antigens. Edited by Oxford University Press pp 144-7.
11. Grogan TM, Fielder K, Rangel C, Jolley CJ, Wirt DP, Hicks MJ, et al. Peripheral T-cell lymphoma: aggressive disease with heterogeneous immunotypes. Am J Clin Pathol. 1985 Mar;83(3):279-88. PubMed PMID: 2983525.
12. Clark, E.A. et al. (1983). Evolution of epitopes on human and non-human primate lymphoid cell surface antigens. Immunogenetics 18: 599-615.
13. Maggiorella MT, Monardo F, Koanga-Mogtomo ML, Cioè L, Sernicola L, Corrias F, et al. Detection of infectious simian immunodeficiency virus in B- and T-cell lymphomas of experimentally infected macaques. Blood. 1998 May 1;91(9):3103-11. PubMed PMID: 9558363.