

Monoclonal Antibody to CD4 - Cy5

Alternate names:	T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4
Catalog No.:	AM08157C5-N
Quantity:	100 Tests
Background:	<p>CD4 is a single chain transmembraneous glycoprotein (59 kDa) which belongs to the immunoglobulin superfamily. CD4 is present on a subset of T lymphocytes ("helper/inducer" T cells) and is also expressed at a lower level on monocytes, tissue macrophages and granulocytes. The antigen is involved in binding to MHC class II molecules. The intracellular domain of the antigen is associated with p56lck protein tyrosine kinase.</p> <p>CD4 functions as an accessory molecule in the recognition of foreign antigens in association with MHC Class II antigens by T cells. (Ref.1-6)</p>
Uniprot ID:	P01730
NCBI:	NP_000607.1
GeneID:	920
Host / Isotype:	Mouse / IgG1
Clone:	RFT-4g
Format:	<p>State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: Cy5 – Cyanine 5</p>
Applications:	<p>Flow Cytometry: 10 µL/10e6 cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody recognizes CD4. Species: Human. Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.</p>
General Readings:	<ol style="list-style-type: none">McMichael, A.K., P.C.L. Beverly, S. Cobbold, M.J. Crumpton, W. Gilks, F.M. Gotch, N. Hogg, M. Horton, N. Ling, I.C.M. MacLennan, D.Y. Mason, C. Milstein, D. Spiegelhalter, and H. Waldmann, eds. 1987. Leukocyte Typing III: White Cell Differentiation Antigens, Oxford University Press, Oxford.Barclay, A.N., M.H. Brown, S.K.A. Law, A.J. McKnight, M.G. Tomlinson, and P.A. van der Merwe, eds. 1997. The Leukocyte Antigens Facts Book, 2nd Edition, CD4 Section, Academic Press, New York, p. 141.

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

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3. Parne, J.R. 1984. Adv. Immunol. 44:265.
4. Littman, D.R., ed. 1996. The CD4 Molecule. In: Curr. Top. Microbiol. Immunol. 205.
5. Sakihama, T., A. Smolyar, and E.L. Reinherz. 1995. Immunol. Today 16:581.
6. Vignali, D.A., R.T. Carson, B. Chang, R.S. Mittler, and J.L. Strominger. 1996. J. Exp. Med. 183:2097.

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