



## CD7

**Product:** Anti-human T cells Monoclonal Antibody

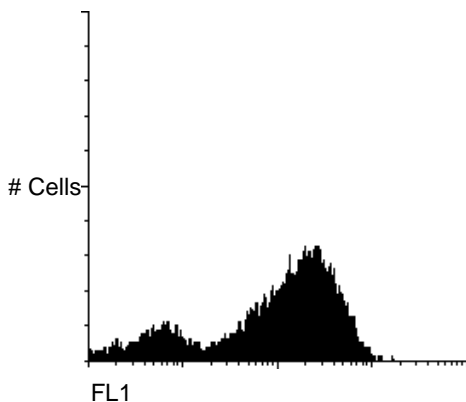
**Description:** Identification of human T lymphocytes in multiple stages of T cell development, including a major subset of mature peripheral T cells. CD7 antigen is often increased on T leukemic cells. The CD7 molecule is a 40,000 M.W. surface antigen that is expressed on T-Lymphoid and myeloid precursors in fetal liver and bone marrow.

**Isotype:** Mouse IgG2a kappa

**Clone:** mG34

**Applications:** Monitoring of T cells in peripheral blood; Study of T cell leukemia's and lymphoma's; Study of cell mediated cytotoxicity; Study of bone marrow transplantation.

**Use:** PBMC: Add 10  $\mu$ l of MAB/ $10^6$  PBMC in 100  $\mu$ l PBS. Mix gently and incubate for 15 minutes at 2<sup>o</sup> to 8<sup>o</sup> C. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. WHOLE BLOOD: Add 10  $\mu$ l of MAB/100  $\mu$ l of whole blood. Mix gently and incubate for 15 minutes at room temperature 20<sup>o</sup>C. Lyse the whole blood. Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. See instrument manufacturer's instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.



Legend: Peripheral Blood Lymphocytes Stained with Exalpa's PE Labeled anti-CD7.

Gated Lymphocytes

**Storage:** Unconjugated antibodies supplied as a 1 mg/ml solution PBS and 0.08% sodium azide and should be stored at -20<sup>o</sup>C. Conjugated antibodies are supplied in PBS, 0.08% sodium azide and 0.2% protein carrier and should be stored at 4-8<sup>o</sup>C. Conjugated antibodies should not be frozen. Reagents are stable for the period shown on the vial label when stored properly.

Ordering Information:	Form	Vial Size	Catalog #
	Pure	100 $\mu$ g	0071
	FITC	100 Test	0072
	Biotin	100 Test	0073
	PE	100 Test	0074

**For research use only. Not for use in human diagnostics or therapeutics.**

## REFERENCES:

1. Isolation and characterization of the genomic human CD7 gene: structural similarity with the murine Thy-1 gene. Schanberg, L.E., Fleener, D.E., Kurtzberg, J., Haynes, B.F., Kaufman, R.E.; Proc. Natl. Acad. Sci. USA , 1991 Jan 1;88(2):603-7.
2. Identification of novel B-lineage cells in human fetal bone marrow that coexpress CD7. Grumayer, E.R., Griesinger, F., Hummell, D.S., Brunning, R.D., Kersey, J.H.; Blood, 1991 Jan ; 77(1):64-8.
3. Genuine CD7 expression in acute leukemic and lymphoblastic lymphoma. Osada, H., Emi, N., Ueda, R., Seto, M., Koike, K., Suchi, T., Kojima, S., Obata, Y., Takahashi, T.; Leuk. Res. 1990;14(10):869-77.
4. Inhibition of alloresponsive naive and memory T cells by CD7 and CD25 antibodies and by cyclosporine. Akbar, A.N., Amlot, P.L., Ivory, K., Timms, A., Janossy, G.; Transplantation, 1990 No;50(5):823-9.
5. Comparison of outcome, clinical, laboratory, and immunological features in 164 children and adults with T-ALL. Garand, R., Vannier, J.P., Bene, M.C., Faure, G., Favre, M., Bernard, A,. Leukemia, 1990 No;4(11):739-44.

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