



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	☒ HTLV-1 Infected Cells (RHT-16)
Catalog Number:	340
Lot Number:	2
Release Category:	C
Provided:	5 x 10 ⁶ cells/mL.
Cell Type:	Rabbit T cells infected <i>in vivo</i> with HTLV-1 via injection of MT-2 cells. Two months post-infection, PBL's were placed in culture with IL-2 and monitored for outgrowth. Non-adherent cell proliferation was observed after 4 weeks. Cells became IL-2 independent after 8 weeks. Cells are rounded and oval shaped.
Propagation Medium:	RPMI 1640 with supplemented with 6 Mm L-glutamine, 100 U/mL penicillin and 100 µg/mL streptomycin, 90%; inactivated fetal bovine serum, 10%.
Freeze Medium:	RPMI 1640 with 20% inactivated fetal bovine serum, 50%; cryoprotective medium (MA Bioproducts, #12-132A), 50%.
Growth Characteristics:	May grow slowly when seeding from frozen cells. Freeze medium should be washed out completely. Initiate cultures in T25 flasks. Maintain cells at 2 x 10 ⁶ cells/mL. Doubling time is 20 hours. Split 1:2-1:3 when pH of medium changes, about every two to three days. Splitting cells before pH changes may dilute out a factor which encourages growth. Cells grow in suspension with clumping.
Description:	These cells contain integrated HTLV-1 provirus.
Special Characteristics:	Positive by flow cytometry analysis for rabbit T-cell antigen, CD8, and HTLV-1 p24. TCR positive by Northern blot analysis. Sheds intact virus particles. Susceptible to HIV infection.
Recommended Storage:	Liquid nitrogen.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

Contributor: Dr. Thomas Kindt.

References: Sawasdikosol S, Hague BF, Zhao T-M, Bowers FS, Simpson RM, Robinson MA, Kindt TJ. Selection of rabbit CD4-CD8- T cell receptor- $\gamma\delta$ cells by *in vitro* transformation with human T-lymphotropic virus-I. *J Exp Med* **178**:1337-1345, 1993.

Truckenmiller ME, Kulaga E, Gugel E, Dickerson D, Kindt TJ. Evidence for dual infection of rabbits with the human retroviruses HTLV-I and HIV-1. *Res Immunol* **140**:527-544, 1989.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: RHT-16 from Dr. Thomas Kindt." Also include the references cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact the NIH Office of Technology Transfer, Email: NIAIDAIDSReagent@niaid.nih.gov, before the reagent can be released. Please specify the name and a description of the intended use of the reagent.

Last Updated July 02, 2018

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