



DATA SHEET

For research use only. Not for use in humans.

Reagent:	Human T-Lymphotropic Virus Type 1 (HTLV-1)-Infected RHT-16 Cells
Catalog Number:	ARP-340
Lot Number:	sublot 5
Release Category:	C
Provided:	Each vial of ARP-340 contains approximately 10^6 cells in 1 mL of RPMI 1640 medium containing 20% heat-inactivated fetal bovine serum and 50% Cryoprotective Freezing Medium.
Cell Type:	ARP-340 is a rabbit T-cell line containing an integrated human T-lymphotropic virus type 1 (HTLV-1) provirus derived by infecting rabbit T cells <i>in vivo</i> with HTLV-1 via injection of MT-2, a normal human cord leukocyte cell line. Two months post-infection, peripheral blood leukocytes (PBLs) were placed in culture with interleukin-2 (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:	The recommended propagation medium is RPMI 1640 medium supplemented with 20% heat-inactivated fetal bovine serum, 6 mM L-glutamine and 100 U per mL penicillin.
Freeze Medium:	The recommended freeze medium is RPMI 1640 containing 20% heat-inactivated fetal bovine serum and 50% Cryoprotective Freezing Medium (Lonza 12-132A).
Growth Characteristics:	HTLV-1-infected RHT-16 cells grow in a clumping suspension, with a doubling time of about 20 hours, and may grow slowly when seeding from frozen cells. When thawing, the freeze medium should be washed out completely. Initiate cultures in T25 flasks and maintain cells at 2×10^6 cells per mL. Cultures should be split at a ratio of 1:2 to 1:3 when the pH of the medium changes, about every 2 to 3 days. Splitting cells before the pH changes may dilute out a factor which encourages growth.
Description:	RHT-16 cells contain integrated HTLV-1 provirus.
Special Characteristics:	RHT-16 cells were positive by flow cytometry analysis for rabbit T-cell antigen, CD8, and HTLV-1 p24, as well as T-Cell Receptor (TCR) positive by northern blot analysis. RHT-16 cells shed intact virus particles and are susceptible to Human Immunodeficiency Virus (HIV) infection.
Recommended Storage:	Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.
Contributor:	Thomas Kindt
Reference:	Sawadikosol, S., et al. "Selection of Rabbit CD4-CD8-T-Cell Receptor-Gamma/Delta Cells by <i>in Vitro</i> Transformation with Human T-Lymphotropic Virus-I." <i>J. Exp. Med.</i> 178 (1993): 1337-1345. PubMed: 8376938 . Truckenmiller, M. E., et al. "Evidence for Dual Infection of Rabbits with the Human Retroviruses HTLV-I and HIV-1." <i>Res. Immunol.</i> 140 (1989): 527-544. PubMed: 2781136 .
Citation:	Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Human T-Lymphotropic Virus Type 1 (HTLV-1)-Infected RHT-16 Cells, ARP-340, contributed by Dr. Thomas Kindt." Also include the references cited in any publications.

**Biosafety Level: 2**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories, 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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