



DATA SHEET

For research use only. Not for use in humans.

Reagent:	Human T-Lymphotropic Virus (HTLV-1)-Infected Side Population (SP) Cells
Catalog Number:	ARP-3059
Lot Number:	190464
Release Category:	D
Provided:	Each vial of ARP-3059 contains approximately 1.2×10^6 cells per milliliter in growth medium containing 7.5% dimethyl sulfoxide (DMSO). Post-thaw viability was 95%.
Cell Type:	ARP-3059 is a SP cell line that expresses mature T-cell-specific antigens and co-expresses CD4 and CD8.
Propagation Medium:	The recommended propagation medium is RPMI 1640 medium supplemented with 10% fetal bovine serum, 2 mM L-glutamine, 100 U per milliliter penicillin, 100 µg per milliliter streptomycin and 10% purified human interleukin-2 (IL-2).
Freeze Medium:	The recommended freeze medium is 92.5% propagation medium and 7.5% DMSO.
Growth Characteristics:	ARP-3059 grows as a single-cell suspension with a doubling time of approximately 1 to 2 days. Passage the cells every 3 days thereafter, always including IL-2 and splitting 1:10 to maintain log phase growth.
Sterility:	Tests for bacteria, fungi and mycoplasma were negative.
Description:	ARP-3059 is a side population (SP) cell line, cloned from the peripheral blood mononuclear cells (PBMC) of a female with adult T-cell lymphoma, that express mature T-cell-specific antigens, as well as co-expressing CD4 and CD8.
Special Characteristics:	<p>ARP-3059 also expresses CD2 and CD3 but lacks detectable levels of TCR$\alpha\beta$ or TCR$\gamma\delta$. SP cells represent a mature T cell since they lack surface CD1 expression, intracellular thymic terminal deoxynucleotidyl transferase and message expression for V(D)J recombinase activating gene. ARP-3059 also contains a single integrated, full-length copy of HTLV-1 mature virions.</p> <p>SP cells also contain a single integrated, full length copy of HTLV-I as determined by Southern analysis. SP cells are highly susceptible to human immunodeficiency virus (HIV) infection.</p>
Recommended Storage:	Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.
Contributor:	Dr. Thomas Folks
Reference:	Rowe, T., et al. "Characterization of an HTLV-I-Infected Cell Line Derived from a Patient with Adult T-Cell Leukemia with Stable Co-Expression of CD4 and CD8." <i>Leuk. Res.</i> 19 (1995): 621-628. PubMed: 7564472 .
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 (HTLV-1)-Infected Side Population (SP) Cells, ARP-3059, contributed by Dr. Thomas Folks."
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. <i>Biosafety in Microbiological and Biomedical Laboratories</i> . 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmb15/index.htm .

**Disclaimers:**

You are authorized to use this product for research use only. It is not intended for use in humans.

Use of this product is subject to the terms and conditions of the NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at www.hivreagentprogram.org.

While the NIH HIV Reagent Program uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to the NIH HIV Reagent Program are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

ATCC® is a trademark of the American Type Culture Collection.

