b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

DATA SHEET

For research use only. Not for use in humans.

Reagent: Jurkat-HXBc2(4) Cells

Catalog Number: ARP-3952

Lot Number: 100304

Provided: Each vial of ARP-3952 contains approximately 2.9 × 10^6 cells in 1 mL of freeze medium. Post-thaw viability was 80%.

Cell Type: ARP-3952 is a Jurkat-T lymphocyte cell line.

Propagation Medium: The recommended propagation medium is 90% RPMI-1640 supplemented with 10% fetal bovine serum (FBS), 200 µg/mL G418, 200 µg/mL hygromycin and 1 µg/mL tetracycline (to suppress *env* and *rev* expression).

Freeze Medium: The recommended freeze medium is 90% propagation medium supplemented with 10% DMSO.

Growth Characteristics: The initial culture should be established in RPMI-1640 with 10% FBS and 1 µg/mL tetracycline for a week at 37°C and 5% CO_2. Once the culture is established, 200 µg/mL G418 and 200 µg/mL hygromycin can be added to the growth medium.

Sterility: Tests for bacteria, fungi and mycoplasma were negative.

Description: ARP-3952 is a Jurkat cell line that inducibly expresses human immunodeficiency virus type 1 (HIV-1) HXBc2 Rev and Env when tetracycline is removed from the medium. CD4 expression in this clone is low [13% as determined by fluorescence-activated cell sorting (FACS)].

Recommended Storage: Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.

Contributor: Dr. Joseph Sodroski

References:

Cao, J., et al. “Molecular Determinants of Acute Single-Cell Lysis by Human Immunodeficiency Virus Type 1.” J. Virol. 70 (1996): 1340-1354. PubMed: 8627650.

Citation: Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Jurkat-HXBc2(4) Cells, ARP-3952.”

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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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HIV REAGENT PROGRAM

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