



NIH AIDS Reagent Program

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DATA SHEET

Reagent: NIH-3T3 CD4+ CXCR4+ Cells

Catalog Number: 3948

Lot Number: 160132

Release Category: C

Provided: 1 mL of cells at 5.8×10^6 cells/mL. Viability is 93%.

Propagation Medium: DMEM, 90%; fetal bovine serum, 10%. Supplement with pen/strep (**Note:** G418 and puromycin-sensitive).

Freeze Medium: Fetal bovine serum, 90%; DMSO, 10%.

Sterility: Negative for bacteria, fungi, and mycoplasma

Description: NIH-3T3 cells expressing human CD4 and human CXCR4.

Special Characteristics: NIH-3T3 cells were stably transduced with a MLV MX-CD4 retroviral vector and sorted for high CD4 expression. Cells were subsequently transduced with MX-CXCR4 and sorted for high CXCR4 expression. Human CD4 and CXCR4 expression are each directed by the MX vector and BABE vector MLV LTR elements. Note: there is no selectable drug resistance marker encoded by the MX vector.

Cell line for HIV/SIV infections. As murine cells do not replicate HIV/SIV efficiently, these cells are typically used for infections with HIV/SIV Env pseudotyped vectors (ex: HIV-luc), or in syncytium assays, but not with replication-competent virus infections.

Alternate names: 3T3.T4.CXCR4

Contributor: Dr. Dan Littman

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.

References:

Deng H-K, Unutmaz D, KewalRamani VN, Littman DR. Expression and cloning of new receptors used by simian and human immunodeficiency viruses. *Nature* **388**:296-300, 1997.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: NIH-3T3 CD4+ CXCR4+ Cells from Dr. Dan R. Littman." Also include the reference cited above in any publications.

Patent pending. Scientists at for-profit institutions or who intend commercial use of this reagent must contact the New York University Office of Industrial Liaison at the following email address: abram.goldfinger@nyumc.org

Last Updated

April 02, 2019

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