



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent:	THP-1 DC-SIGN+ Cells
Catalog Number:	9943
Lot Number:	140404
Release Category:	C
Provided:	4.8 x 10 ⁶ cells/vial and viability is 54%.
Cell Type:	Human monocytic cell line
Propagation Medium:	RPMI 1640, 90%; fetal bovine serum, 10% supplemented with 1.0 mM sodium pyruvate, 0.05 mM 2-mercaptoethanol.
Freeze Medium:	RPMI 1640, 70%; fetal bovine serum, 20%; DMSO, 10%.
Growth Characteristics:	Suspension cell line. Slow-growing cell line. Split 1:2 or 1:3 when the cells are at about 1 x 10 ⁶ /mL.
Morphology:	Monocytic
Sterility:	Negative for mycoplasma, bacteria and fungi.
Description:	THP-1 cells transduced to express DC-SIGN.
Special Characteristics:	THP-1 cells (cat# 9942) were transduced with the MLV vector MX-DC-SIGN and FACS sorted as a population for high levels of DC-SIGN expression. The MX-DC-SIGN vector encodes no drug-selectable marker gene. Thus, early freezes of this line should be established. Variable expression of DC-SIGN will be observed in the cell population if kept more than one month in culture. THP-1 DC-SIGN cells do not support DC-SIGN-mediated HIV transmission. This cell line expresses low levels of endogenous DC-SIGN. This line also expresses CD4 and can be infected by X4-tropic HIV. This is a slowly growing cell line.

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.

Note: Previously referred to as THP-1 ATCC DC-SIGN+ Cells.

Recommended Storage:

Liquid nitrogen

Contributor:

Drs. Li Wu and Vineet N. KewalRamani, HIV Drug Resistance Program, NCI.

References:

Wu L, Martin TD, Carrington M, KewalRamani VN. Raji B cells, misidentified as THP-1 cells, stimulate DC-SIGN-mediated HIV transmission. *Virology* **318**:17-23, 2004.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: THP-1 DC-SIGN+ Cells from Drs. Li Wu and Vineet N. KewalRamani." Also include the reference cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact: Dr. Jeffrey W. Thomas, NCI Technology Transfer Center, ATRF Room E3202, PO Box B, Frederick, MD 21701, Email: jeffreyt@mail.nih.gov, Tel: (301) 846-5465, Fax: (301) 846-6820, before the reagent can be released. Tel: 301-846-5465

Last Updated

October 01, 2018

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