



## 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:** 050776

**Release Category:** C

**Provided:** 4 x 10<sup>6</sup> cells/vial and viability is 95%.

**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. Its doubling time is approximately 24 hours.

**Morphology:** Monocytic.

**Sterility:** Negative for mycoplasma, bacteria and fungi.

**Special Characteristics:** Derived from THP-1 cells (Cat# 9942) obtained from the ATCC. THP-1 parental cells 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.

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

---

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.

**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

---

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.