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DATA SHEET

Reagent:	THP-1 NCI DC-SIGN+ Cells
Catalog Number:	9950
Lot Number:	051164
Release Category:	C
Provided:	2 x 10^6 cells/vial and viability is 93%.
Cell Type:	Human monocytic cell line
Propagation Medium:	RPMI 1640, 90%; fetal bovine serum, 10%.
Freeze Medium:	RPMI 1640, 70%; fetal bovine serum, 20%; DMSO, 10%.
Growth Characteristics:	Suspension cell line. Doubling time of approximately 24 hours.
Morphology:	Monocytic.
Sterility:	Negative for mycoplasma, bacteria and fungi
Description:	THP-1_{NCI} cells transduced to express DC-SIGN.
Special Characteristics:	THP-1_{NCI} cells (cat# 9949) were obtained from Dr. Howard Young (NCI) and 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_{NCI}/DC-SIGN cells do **not** support DC-SIGN-mediated HIV transmission to bystander cells *in trans*. The THP-1_{NCI} parental line expresses low levels of endogenous DC-SIGN. These cells also express CD4 and can be infected by X4-tropic HIV.

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Recommended Storage:	Liquid nitrogen
Contributor:	Drs. Li Wu and Vineet N. KewalRamani, HIV Drug Resistance Program, NCI.
References:	Wu, L., Martin, T. D., Carrington, M., & KewalRamani, V. N. (2004). Raji B cells, misidentified as THP-1 cells, stimulate DC-SIGN-mediated HIV transmission. Virology, 318(1), 17-23. doi:10.1016/j.virol.2003.09.028 PUBMED S. Tsuchiya, M. Yamabe, Y. Yamaguchi, Y. Kobayashi, T. Konno and K. Tada. (1980). Establishment and characterization of a human acute monocytic leukemia cell line (THP-1). Int J Cancer, 26(2), 171-6. PUBMED
NOTE:	Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: THP-1 NCI 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	June 04, 2018