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DATA SHEET

Reagent: ✖ NC-37 DC-SIGN+ Cells

Catalog Number: 9937

Lot Number: 080223

Release Category: C

Provided: 3×10^6 cells/mL. Viability, 92%.

Cell Type: Human B 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 20 hours. Maintain cultures at 5×10^5 cells/mL.

Morphology: Lymphocytic.

Sterility: Negative for mycoplasma, bacteria and fungi.

Special Characteristics: Derived from NC-37 cells (Cat# 9936), an Epstein Barr Virus (EBV)-positive Burkitt's lymphoma line, obtained from the ATCC. Although unclear in the ATCC description, NC-37 cells are genetically distinct from Raji cells (Cat# 9944). NC-37 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. NC-37/DC-SIGN cells support efficient DC-SIGN-mediated HIV transmission.

Alternative Name: NC-37/DC-SIGN

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. <i>Virology</i> 318 :17-23, 2004.
NOTE:	<p>Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: NC-37 DC-SIGN+ Cells from Drs. Li Wu and Vineet N. KewalRamani." Also include the reference cited above in any publications.</p> <p>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.</p>
Last Updated	August 31, 2017

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