

Data Sheet

NAME :	HOS-CD4
REPOSITORY REFERENCE :	ARP064
SPECIES/TYPE :	CD4-transformed HOS (osteosarcoma) cells that also express the <i>gpt</i> selectable marker gene
SPECIAL CHARACTERISTICS :	CD4+ control cell line. Adherent, flat cells with low saturation density. This cell line does not express chemokine receptors at detectable levels, with the exception of CXCR4, which is expressed at a very low level. CXCR4 expression is not detectable by FACS, but can be detected by PCR, and results in a low level of infection by T-tropic HIV-1.
FREEZE MEDIUM :	DMEM, 70%; foetal bovine serum, 20%; DMSO, 10%
PROPAGATION :	DMEM, 90%; foetal bovine serum, 10%. NOTE: CD4 expression decreases with long-term (~4 months) culture in the absence of selection. Every few months, the CD4+ cells can be selected for by adding mycophenolic acid (40ug/ml), xanthine (250ug/ml), hypoxanthine (13.5ug/ml), and HEPES (10mM to the propagation medium). If desired, the cells can be maintained continuously in this CD4 selection medium.
GROWTH CHARACTERISTICS:	Thaw cells quickly at 37°C and immediately place them in 10ml culture medium. Centrifuge at 400x g to wash out DMSO. Re-suspend the cells in 10ml fresh culture medium, and plate them onto a 10cm ² tissue culture dish. Cells normally require a minimum of 3-4 days to recover, but should be checked daily to see if they need to be split. Cells split 1:10 should become confluent after 3 days. Trypsinize and split at least twice a week; do not allow them to become overconfluent.

STORAGE : Liquid nitrogen

STERILITY: Negative for bacteria, fungi and mycoplasma.

SOURCE : Dr Nathaniel Landau, Aaron Diamond AIDS Research Centre,
The Rockefeller University.

REFERENCE : He J, Landau N. Use of novel human immunodeficiency virus type 1 reporter virus expressing human placental alkaline phosphatase to detect an alternative viral receptor. *J Virol* **69**:4587-4592, 1995.
Deng H, Liu R, Ellmeier W, Choe S, Unutmaz D, Burkhart M, Di Marzio P, Marmon S, Sutton RE, Hill CM, Davis CB, Peiper SC, Schall TJ, Littman DR, Landau NR. Identification of a major co-receptor for primary isolates of HIV-1. *Nature* **381**:661-666, 1996.

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Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be electronically or as a paper copy)