

Data Sheet

NAME: U87.CD4 cell lines (Chemokine receptor transfectants).

REPOSITORY REFERENCE: ARP069-073

SPECIES/TYPE: Human glioma cells expressing human chemokine receptors..

DESCRIPTION: Adherent cells expressing chemokine co-receptors on cell surface.

ARP:	Chemokine Co-receptor
069 Control	U87.CD4
069	CCR1
070	CCR2b
071	CCR3
072	CCR5
073	CXCR4

CD4 was introduced with pMV7neo retroviral vector conferring G418 resistance. All co-receptor genes were introduced with retroviral vector pBABEpuro.U87-CXCR4 has no detectable cell surface CD4 expression. All cells except 069 Control are positive for Amphotrophic Murine Leukaemia Virus. All cells are negative for Mycoplasma.

SPECIAL CHARACTERISTICS: These cells can be used for HIV/SIV infections for virus time course/production assays. All U87 cells endogenously express the GPR1 orphan receptor and ARP071-073 cells also express the Bonzo/STRL33 receptor. These receptors can be used, primarily by certain SIV isolates for entry.

GROWTH CHARACTERISTICS: Cells divide slowly; however, they should not be allowed to become over-confluent. In general, pass cells at 80% confluence and split no more than 1:10. All cells are sensitive to acidic medium.

CULTURE MEDIUM: DMEM, 85%
Heat inactivated Foetal calf serum, 15%
G418, 300µg/ml
Puromycin 1µg/ml. (*Do not add Puromycin to 069c*).
Supplement with penicillin and streptomycin.

STORAGE: Liquid nitrogen

SOURCE: Dr Littman and Dr HongKui Deng

REFERENCES: Bjorndal A et al, 1997, J Virol 71: 7478-7487

ACKNOWLEDGEMENTS: Publications should acknowledge the donor of the reagent and the Programme EVA Centre for AIDS Reagents. Suggested wording can be found on our website at <http://www.nibsc.ac.uk/spotlight/aidsreagent/index.html> in the “Acknowledgements” section.
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)

NOTE: Enquiries from commercial organisations should contact the New York University Industrial Liaison Office (Tel: +212 263 8178) to negotiate licensing agreements.