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.

<table>
<thead>
<tr>
<th>ARP</th>
<th>Chemokine Co-receptor</th>
</tr>
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<tbody>
<tr>
<td>069 Control</td>
<td>U87.CD4</td>
</tr>
<tr>
<td>069</td>
<td>CCR1</td>
</tr>
<tr>
<td>070</td>
<td>CCR2b</td>
</tr>
<tr>
<td>071</td>
<td>CCR3</td>
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<tr>
<td>072</td>
<td>CCR5</td>
</tr>
<tr>
<td>073</td>
<td>CXCR4</td>
</tr>
</tbody>
</table>

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:

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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)

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