Raji/Human HVEM Stable Cell Line Development Service Data Sheet

Raji/Human HVEM Stable Cell Line

Catalog No.	Size
SCRAJ-STF108	2 × (1 vial contains ~5×10^6 cells)

• *Description*

The Raji/Human HVEM Stable Cell Line was engineered to express full length human HVEM (Gene ID: 8764), used to mimic cancer target cells. Surface expression of human HVEM was confirmed by flow cytometry.

• *Application*

- Useful for cell-based HVEM binding assay
- Useful as HVEM-expressing target cells in reporter gene assay

• *Cell Line Profile*

Cell line	Raji/Human HVEM Stable Cell Line
Host Cell	Raji
Property	Suspension
Complete Growth Medium	RPMI-1640 + 10% FBS
Selection Marker	NA
Incubation	37℃ with 5% CO_2
Doubling Time	16-20 hours
Transduction Technique	Lentivirus

Raji/Human HVEM Stable Cell Line Development Service Data Sheet

• *Materials Required for Cell Culture*

- RPMI-1640 (ATCC, Cat.No.30-2001)
- Fetal bovine serum (Gibco, Cat.No.10091-148)
- Complete Growth Medium: RPMI-1640 + 10% FBS
- Culture Medium: RPMI-1640 + 10% FBS
- Freeze Medium: 90% FBS, 10% (V/V) DMSO
- T-75 Culture flask (Corning, 430641)
- Cryogenic storage vials (SARSTEDT, 72.379.007)
- Thermostat water bath
- Centrifuge
- Luna cell counter (Logos Biosystems, LUNA-II)
- CO_2 Incubator (Thermo, 3111)
- Biological Safety Cabinet (Thermo, 1389)

• *Recovery*

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the cap out of the water. Thawing should be rapid (approximately 5 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by spraying with 70% ethanol. All the operations from this point on should be carried out under strict aseptic conditions.
3. Transfer the vial contents to a centrifuge tube containing 4.0 mL complete growth medium.
4. Count viable cells and spin at approximately 1000 rpm for 5 minutes.
5. Discard the supernatant and resuspend the cell pellet in an appropriate amount of fresh complete growth medium. Adjust the cell density of the suspension to 1×10^6 viable cells/mL and transfer cells to an appropriate size vessel.
6. Incubate at 37°C with 5% CO_2 incubator.

Raji/Human HVEM Stable Cell Line Development Service Data Sheet

• *Subculture*

Adjust the cell density at 1 x10^5-2 x10^5 viable cells/mL by the addition of fresh medium or replacement of culture medium. Do not allow the cell density to exceed 2 x10^6 cells/mL. T-75 flasks are recommended for subculturing.

- **Medium Renewal:** Add fresh culture medium every 3 to 4 days (depending on cell density)

• *Cryopreservation*

1. Count viable cells and harvest the cell suspension.
2. Centrifuge at 1000 rpm for 5 min at RT and resuspend cells in freezing medium to a concentration of 5×10^6 to 1×10^7 cells/mL.
3. Aliquot into cryogenic storage vials. Place vials in a programmable cooler or an insulated box placed in a –80°C freezer overnight, then transferring to liquid nitrogen storage.

• *Storage*

- **Product format:** Frozen
- **Storage conditions:** Liquid nitrogen immediately upon receipt

Raji/Human HVEM Stable Cell Line Development Service Data Sheet

- ***Receptor Assay***

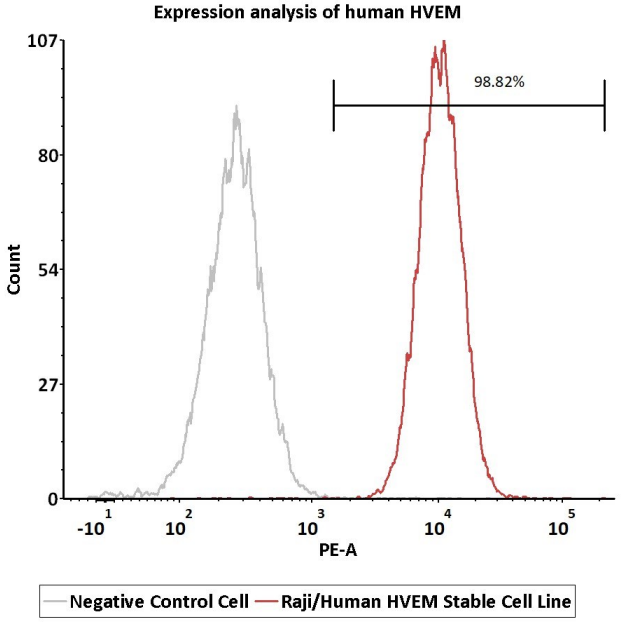
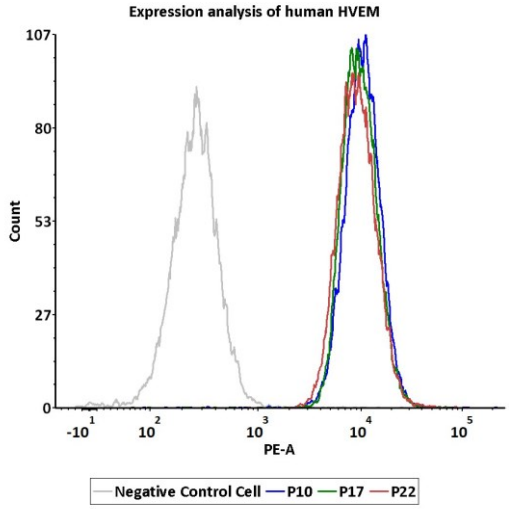


Fig1. Expression analysis of human HVEM on Raji/Human HVEM Stable Cell Line by FACS. Raji/Human HVEM Stable Cell Line or negative control cell were stained with PE-labeled anti-Human HVEM antibody.

Raji/Human HVEM Stable Cell Line Development Service Data Sheet

- ***Passage Stability***



Passage	MFI for HVEM (PE)
P10	9927.77
P17	9131.60
P22	8637.84

Fig2. Passage stability analysis of receptor expression by FACS. Flow cytometry surface staining of human HVEM on Raji/Human HVEM Stable Cell Line demonstrates consistent mean fluorescent intensity across passage 10-22.

Raji/Human HVEM Stable Cell Line Development Service Data Sheet

• *License Disclosure*

This reporter cell is provided for research use only. This license does not permit you to share, distribute, sell, sublicense, or otherwise make this reporter cell available for use to other laboratories, departments, research institutions, hospitals, universities, or biotech companies. The license does not permit modification of this reporter cell in any way. Inappropriate use or distribution of this reporter cell will result in revocation of the license. Modifications of this cell line, transfer to another facility, or commercial use of the cells may require a separate license and additional fees. AcroBiosystems does not warrant the suitability of this reporter cell for any particular use, and does not accept any liability in connection with the handling or use of this reporter cell.

• *Related Products*

Products	Cat.No.
Raji/Human PD-L1 Stable Cell Line Development Service	SCRAJ-STT075
Raji/Human CD155 Stable Cell Line Development Service	SCRAJ-STT076
Human BTLA (Luc) Jurkat Reporter Cell Development Service	SCJUR-STF106