

Genomeditech (Shanghai) Co.,Ltd.

Order: +86 021-68455258/50432826/50432825

Toll-free: +86 400 627 9288 Email: service@genomeditech.com

Product Sheet

H_HLA-G1 K562 Cell Line

Catalog number: GM-C15868

Version 3.3.1.241205

H_HLA-G1 K562 Cell Line is a clonal stable K562 cell line that constitutively expresses

human HLA-G1 and human B2M genes, constructed using lentiviral technology.

Quantity 5E6 Cells per vial,1 mL

Product Format 1 vial of frozen cells

Shipping Shipped on dry ice

Storage Conditions Liquid nitrogen immediately upon receipt

Target Human_HLA-G1 & Human_B2M

Gene ID/Uniprot ID P17693-1 & P61769

Host Cell K562

Recovery Medium RPMI 1640+10% FBS+1% P.S

Growth medium RPMI 1640+10% FBS+1% P.S+150 μg/mL Hygromycin+0.75 μg/mL Puromycin

Note None

Freezing Medium 90% FBS+10% DMSO

Growth properties Suspension

Growth Conditions 37°C, 5% CO₂

Mycoplasma Testing The cell line has been screened to confirm the absence of Mycoplasma species.

Safety considerations Biosafety Level 2

Note It is recommended to expand the cell culture and store a minimum of 10 vials at an early

passage for potential future use.



Genomeditech (Shanghai) Co.,Ltd.

Order: +86 021-68455258/50432826/50432825

Toll-free: +86 400 627 9288 Email: service@genomeditech.com

Materials

Reagent	Manufacturer/Catalogue No.
RPMI 1640	VivaCell/C3010-0500
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Hygromycin	Genomeditech/GM-040403
Puromycin	Genomeditech/GM-040401
Anti-H_HLA-G1 hIgG1 Antibody(38373)	Genomeditech/GM-28208AB

Figures

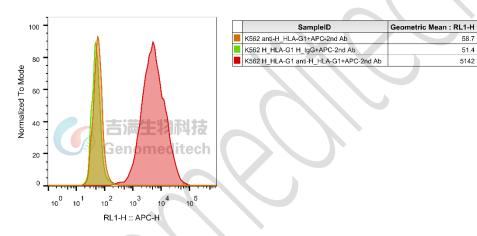


Figure 1 | H_HLA-G1 K562 Cell Line (Cat. GM-C15868) was determined by flow cytometry using Anti-H_HLA-G1 hIgG1 Antibody (Cat. GM-28208AB).

Cell Recovery

Recovery Medium: RPMI 1640+10% FBS+1% P.S

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

- a) Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 3 minutes).
- b) Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
- c) Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium. And spin at approximately 176 x g for 5 minutes. Discard supernatant.

吉满生物科技 Genomeditech Genomeditech (Shanghai) Co.,Ltd.

Order: +86 021-68455258/50432826/50432825

Toll-free: +86 400 627 9288

Email: service@genomeditech.com

d) Resuspend cell pellet with the recommended complete medium. And dispense the suspension into 1 - 2 T-25 culture flasks.

e) Incubate the culture at 37°C in a suitable incubator. A 5% CO₂ in air atmosphere is recommended if using the medium described on this product sheet.

Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

- a) Centrifuge at 176 x g for 3 minutes to collect cells.
- b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.
- c) Aliquot 1 mL into each vial.
- d) Place the vial in a controlled-rate freezing container and store at -80°C for at least 1 day, then transfer to liquid nitrogen as soon as possible.

Cell passage

Growth medium: RPMI 1640+10% FBS+1% P.S+150 µg/mL Hygromycin+0.75 µg/mL Puromycin

Approximately 48 - 72 hours after the initial thawing, the cells can be passaged for the first time. After this initial passage, the culture medium can be adjusted to growth medium supplemented with antibiotics. If cells are not passaged within 48 hours, it is recommended to add some fresh recovery medium and place the flask horizontally.

- a) When the cell density reaches 1 1.2E6 cells/mL, subculture the cells. Do not allow the cell density to exceed 1.5E6 cells/mL.
- b) It is recommended to use T-25 flasks for subculturing.
- c) These cells are suspension cells, and it is recommended to use the "half-medium change" method to maintain optimal cell conditions during passaging.
- d) During passaging, you can directly add fresh growth medium to the culture flask, gently pipette to resuspend the cells, and then transfer the cell suspension to a new T-25 flask for continued culture.

Subcultivation Ratio: Maintain cultures at a cell concentraion between 3E5 and 1E6 viable cells/mL.

Medium Renewal: Every 2 to 3 days

Notes

- a) These cells are sensitive to density, so please ensure that the cell density is maintained within an appropriate range during culture and subculturing.
- b) During the first passage, pay attention to the nutrient supply; if not subculturing, make sure to add fresh recovery medium every other day as needed.

Sequence

HLA-G1 P17693-1



Genomeditech (Shanghai) Co.,Ltd.

Order: +86 021-68455258/50432826/50432825

Toll-free: +86 400 627 9288

Email: service@genomeditech.com

MVVMAPRTLFLLLSGALTLTETWAGSHSMRYFSAAVSRPGRGEPRFIAMGYVDDTQFVRFDSDSACPRMEP RAPWVEQEGPEYWEEETRNTKAHAQTDRMNLQTLRGYYNQSEASSHTLQWMIGCDLGSDGRLLRGYEQY AYDGKDYLALNEDLRSWTAADTAAQISKRKCEAANVAEQRRAYLEGTCVEWLHRYLENGKEMLQRADPP KTHVTHHPVFDYEATLRCWALGFYPAEIILTWQRDGEDQTQDVELVETRPAGDGTFQKWAAVVVPSGEEQR YTCHVQHEGLPEPLMLRWKQSSLPTIPIMGIVAGLVVLAAVVTGAAVAAVLWRKKSSD

B2M P61769

MSRSVALAVLALLSLSGLEAIQRTPKIQVYSRHPAENGKSNFLNCYVSGFHPSDIEVDLLKNGERIEKVEHSDL SFSKDWSFYLLYYTEFTPTEKDEYACRVNHVTLSQPKIVKWDRDM

Related Products

HLA-G	
H_HLA-G1 CHO-K1 Cell Line	H_HLA-G1 HEK-293 Cell Line
H_HLA-G1 MC38 Cell Line	H_HLA-G1 OKT3 CHO-K1 Cell Line
H_HLA-G1 PDL1 MC38(mouse_PDL1 KO) Cell Line	H_HLA-G1 SK-OV3 Cell Line
Rhesus_MAMU-AG HEK-293 Cell Line	
Anti-H_HLA-G1 hIgG1 Antibody(38373)	Anti-H_HLA-G1 mIgG2a Antibody

Limited Use License Agreement

Genomeditech (Shanghai) Co., Ltd grants to the Licensee all intellectual property rights, exclusive, non-transferable, and non-sublicensable rights of the Licensed Materials; Genomeditech (Shanghai) Co., Ltd will retain ownership of the Licensed Materials, cell line history packages, progeny, and the Licensed Materials including modified materials.

Between Genomeditech (Shanghai) Co., Ltd, and Licensee, Licensee is not permitted to modify cell lines in any way. The Licensee shall not share, distribute, sell, sublicense, or otherwise provide the Licensed Materials, or progenitors to third parties such as laboratories, departments, research institutions, hospitals, universities, or biotechnology companies for use other than for the purpose of outsourcing the Licensee's research.

Please refer to the Genomeditech Cell Line License Agreement for details.