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Product Sheet

H_NKG2D HEK-293 Cell Line

Catalog number: GM-C27816

Version 3.3.1.241112

H_NKG2D HEK-293 Cell Line is a clonal stable HEK-293 cell line that constitutively

Description expresses the human NKG2D and human DAP10 gene, 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_NKG2D & Human_DAP10

Gene ID/Uniprot ID P26718-1 & Q9UBK5-1

Host Cell HEK-293

Recovery Medium DMEM+10% FBS+1% P.S

Growth medium DMEM+10% FBS+1% P.S+0.75 μg/mL Puromycin+400 μg/mL G418

Note None

Freezing Medium 90% FBS+10% DMS

Growth properties Adherent

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.



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Materials

Reagent	Manufacturer/Catalogue No.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
G418	Genomeditech/GM-040402
Puromycin	Genomeditech/GM-040401
Anti-NKG2D hIgG1 Antibody(A49MI)	Genomeditech/GM-52535AB

Figures

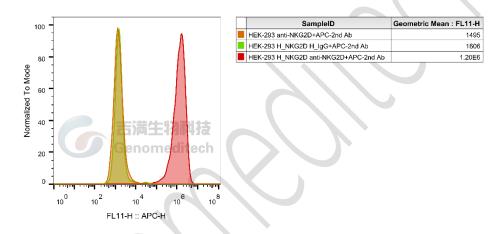


Figure 1 | H_NKG2D HEK-293 Cell Line (Cat. GM-C27816) was determined by flow cytometry using Anti-NKG2D hIgG1 Antibody(A49MI) (Cat. GM-52535AB).

Cell Recovery

Recovery Medium: DMEM+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.

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Resuspend cell pellet with the recommended recovery medium. And dispense into appropriate culture dishes.

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% DMS

Centrifuge at 176 x g for 3 minutes to collect cells. a)

Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL. h)

Aliquot 1 mL into each vial. c)

Place the vial in a controlled-rate freezing container and store at -80°C for at least 1 day, then transfer to liquid d)

nitrogen as soon as possible.

Cell passage

Growth medium: DMEM+10% FBS+1% P.S+0.75 µg/mL Puromycin+400 µg/mL G418

For the first 1 to 2 passages post-resuscitation, use the recovery medium. Once the cells have stabilized, switch to a growth

medium.

Subculturing is necessary when the cell density reaches 80%. It is recommended to perform subculturing at a ratio of a)

1:3 to 1:4 every 2-3 days. Ensure that the density does not exceed 80%, as overcrowding can lead to reduced viability

due to compression.

b) Remove and discard culture medium.

Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor. c)

d) Add 1.0 mL of 0.25% (w/v) Trypsin-EDTA solution to dish and observe cells under an inverted microscope until cell

layer is dispersed (usually within 30 to 60 seconds at 37°C).

Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. e)

Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.

Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting. f)

After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels. g)

Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:3 - 1:4 is recommended

Medium Renewal: Every 2 to 3 days

Notes

Upon initial thawing, a higher number of dead cells is observed, which is a normal phenomenon. Significant

improvement is seen after adaptation. Once the cells reach a stable state, the number of dead cells decreases after

subculturing and the cell growth rate becomes stable.

Ensure that the cell density does not exceed 80%, as overcrowding may lead to reduced viability due to compression.



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Sequence

HCST(DAP10) Q9UBK5-1

MIHLGHILFLLLLPVAAAQTTPGERSSLPAFYPGTSGSCSGCGSLSLPLLAGLVAADAVASLLIVGAVFLCARP RRSPAQEDGKVYINMPGRG

KLRK1(NKG2D) P26718-1

 $MGWIRGRRSRHSWEMSEFHNYNLDLKKSDFSTRWQKQRCPVVKSKCRENASPFFFCCFIAVAMGIRFIIMVA\\ IWSAVFLNSLFNQEVQIPLTESYCGPCPKNWICYKNNCYQFFDESKNWYESQASCMSQNASLLKVYSKEDQD\\ LLKLVKSYHWMGLVHIPTNGSWQWEDGSILSPNLLTIIEMQKGDCALYASSFKGYIENCSTPNTYICMQRTV*$

Related Products

NKG2A:HLA-E		
H_HLA-E HEK-293 Cell Line	H_NKG2A H_CD94 CHO-K1 Cell Line	
Anti-H_KLRC1 hIgG4 Antibody(Monalizumab)	Anti-HLA-E hIgG1 Antibody(ABX-0020)	
MICA;MICB		
Cynomolgus_MICA(AAO24115) CHO-K1 Cell Line	Cynomolgus_MICA(Q2MGE0-1) CHO-K1 Cell Line	
Cynomolgus_MICB CHO-K1 Cell Line	H_MICA CHO-K1 Cell Line	
H_MICA HEK-293 Cell Line	H_MICA*001 Luciferase B16-F10 Cell Line	
H_MICA*001 MC38 Cell Line	H_MICA*008 CHO-K1 Cell Line	
H_MICB CHO-K1 Cell Line	H_MICB HEK-293 Cell Line	
Anti-MICA/MICB hIgG1 Antibody(36 NF G236A)	Anti-MICA/MICB mIgG2a Antibody(7C6)	
Anti-MICA/MICB mIgG2a Antibody(PDI-01)		
NKG2D		
H_NKG2D Blockade Reporter Jurkat Cell Line	Cynomolgus_NKG2D CHO-K1 Cell Line	
H_NKG2D CHO-K1 Cell Line		
Anti-H_KLRK1(NKG2D) hIgG4 Antibody(Tesnatilimab)	Anti-NKG2D hIgG1 Antibody(A49MI)	

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