Genomeditech (Shanghai) Co., Ltd.
Order: +86 021-50432825/50432826
Email: service@genomeditech.com

Product Sheet

H_CEACAM5(CEA) CHO-K1 Cell Line

Catalog number: GM-C12814

Version 4.0.26.1119

Specifications

Description	H_CEACAM5(CEA) CHO-K1 Cell Line is a clonal stable CHO-K1 cell line constitutively expressing human CEACAM5(CEA).
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_CEACAM5(CEA)
Gene ID/Uniprot ID	P06731-1
Host Cell	CHO-K1
Recovery Medium	F12K+10% FBS+1% P.S
Growth medium	F12K+10% FBS+1% P.S+4 μg/mL Blasticidin+4 μg/mL Puromycin
Note	None
Freezing Medium	90% FBS+10% DMSO
Growth properties	Adherent
Growth Conditions	37°C, 5% CO_2
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.

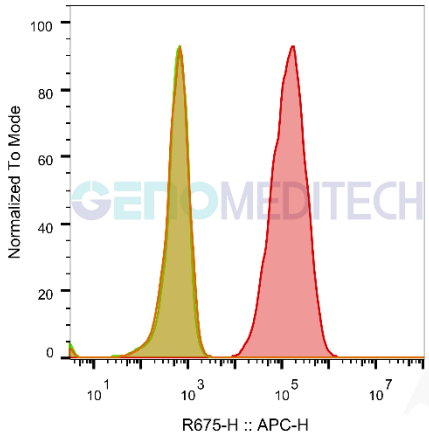
Genomeditech

Materials

Reagent	Manufacturer/Catalogue No.
F12K	BOSTER/PYG0036
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Blasticidin	Genomeditech/GM-040404
ABflo® 647 Rabbit anti-Human CD66e/CEACAM5 mAb	Abclonal/A23022
Countess 3 Automated Cell Counter	ThermoFisher/A49891
NovoCyte Flow Cytometer	Agilent/NovoCyte 2060R

Data

Expression



SampleID	Geometric Mean : R675-H
CHO-K1 APC-anti-CEACAM5 Ab	564
CHO-K1 H_CEACAM5 APC-Rabbit_IgG Ab	551
CHO-K1 H_CEACAM5 APC-anti-CEACAM5 Ab	135648

H_CEACAM5(CEA) CHO-K1 Cell Line (Cat. GM-C12814) was determined by flow cytometry using ABflo® 647 Rabbit anti-Human CD66e/CEACAM5 mAb (abclonal/A23022).

Cell Recovery

Recovery Medium: F12K+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.
d) Resuspend cell pellet with the recommended recovery medium. And dispense into appropriate culture dishes.
e) Incubate the culture at 37°C in a suitable incubator. A 5% CO_2 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: F12K+10% FBS+1% P.S+4 μg/mL Blasticidin+4 μg/mL Puromycin

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

a) Remove and discard culture medium.
b) Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.
c) 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 2 to 3 minutes at 37°C).
d) Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.
e) 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 1:4 - 1:5 is recommended

Medium Renewal: Every 2 to 3 days

Notes

a) After the stabilization of the cell condition, there will be fewer dead cells post-passage, the cell growth rate will tend to stabilize, cell morphology will become uniform, and the cells will appear robust.

Sequence

CEACAM5(CEA) P06731-1

MESPSAPPHRWCIPWQRLLLTASLLTFWNPPTTAKLTIESTPFNVAEGKEVLLLVHNLPQHLFGYSWYKGERVDG
NRQIIGYVIGTQQATPGPAYSGREIIYPNASLLIQNIIQNDTGFYTLHVIKSDLVNEEATGQFRVYPELPKPSISSNNS
KPVEDKDAVAFTCEPETQDATYLWWVNNQSLPVSPRLQLSNGNRTLTLFNVTRNDTASYKCETQNPVSARRSDS
VILNVLYGPDAPTISPLNTSYRSGENLNLSCHAASNPPAQYSWFVNGTFQQSTQELFIPNITVNNSGSYTCQAHNS
DTGLNRTTVTTITVYAEPPKPFITSNNSNPVEDEDAVALTCEPEIQNTTYLWWVNNQSLPVSPRLQLSNDNRTLTL
LSVTRNDVGPYECGIQNELSVDHSDPVILNVLYGPDDPTISPSYTYYRPGVNLSLSCHAASNPPAQYSWLIDGNIQ
QHTQELFISNITEKNSGLYTCQANNSASGHSRTTVKTITVSAELPKPSISSNNSKPVEDKDAVAFTCEPEAQNTTYL
WWVNGQSLPVSPRLQLSNGNRTLTLFNVTRNDARAYVCGIQNSVSANRSDPVTLDVLYGPDTPIISPPDSSYLSG
ANLNLSCHSASNPSPQYSWRINGIPQQHTQVLFIAKITPNNNGTYACFVSNLATGRNNSIVKSITVSASGTSPGLSA
GATVGIMIGVLVGVALI*

Related Products

HAVCR2(TIM3) CEACAM1 galectin-9	
Cynomolgus_HAVCR2(TIM3) CHO-K1 Cell Line	H_CEACAM1(CD66a) CHO-K1 Cell Line
H_HAVCR2(TIM3) CHO-K1 Cell Line	H_HAVCR2(TIM3) HEK-293 Cell Line
Anti-H_CEACAM1(CD66a) hIgG4 Antibody(MK-6018)	Anti-H_HAVCR2(TIM3) hIgG4 Antibody(Sabatolimab)
Anti-TIM3 hIgG2 Antibody(M6903)	
Cynomolgus TIM3 Protein; His Tag	
CEACAM5	
Cynomolgus_CEACAM5(CEA) CHO-K1 Cell Line	Cynomolgus_CEACAM5(CEA) HEK-293 Cell Line
H_CEACAM5(CEA) CT26 Cell Line	H_CEACAM5(CEA) HEK-293 Cell Line
H_CEACAM5(CEA) MC38 Cell Line	
Anti-CEA hIgG1 Antibody(Cibisatamab)	Anti-CEACAM5 hIgG1 Reference Antibody(Labbio)
Anti-CEACAM5 hIgG1 Reference Antibody(Tusbio)	
Human CEACAM5 Protein; hFc Tag	Human CEACAM5 Protein; His Tag
CEACAM8	
H_CEACAM8(CD66b) CHO-K1 Cell Line	
Human CEACAM8 Protein; hFc Tag	Human CEACAM8 Protein; His Tag
CEACAM6	
Cynomolgus_CEACAM6(CD66c) CHO-K1 Cell Line	H_CEACAM6(CD66c) CHO-K1 Cell Line
H_CEACAM6(CD66c) HEK-293 Cell Line	H_CEACAM6(CD66c) HEK-293 Cell Line (High Expression)
Anti-H_CEACAM6(CD66c) hIgG1 Antibody(Tinurilimab)	
Cynomolgus CEACAM6 Protein; His Tag	Human CEACAM6 Protein; His Tag

CEACAM7	
Cynomolgus_CEACAM7 CHO-K1 Cell Line	H_CEACAM7 CHO-K1 Cell Line
H_CEACAM7 HEK-293 Cell Line	
Anti-CEACAM7 hIgG4 Antibody(2869)	
ADC Related Product	
Anti-DXD Mouse IgG1 Antibody (23E21C5)	Anti-DXD Mouse IgG1 Antibody (4A5A12)
Anti-Dxd Mouse IgG2a Antibody (17D6A4)	Anti-Eribulin Mouse IgG2a Antibody (10F8G4)
Anti-MMAE Mouse IgG1 Antibody (11C10E3)	Anti-MMAE Mouse IgG2a Antibody (17A1K11)
Anti-MMAE Mouse IgG2a Antibody (8F6A3)	Anti-SN38 Mouse IgG1 Antibody(59H11C7)
Mouse anti Human IgG1-DXD(Dar8)	Mouse anti Human IgG1-MMAE(Dar4)
Human IgG1 Isotype-DXD (Dar8)	Human IgG1 Isotype-Eribulin (Dar4)
Human IgG1 Isotype-MMAE (Dar4)	
Recombinant DT3C Protein	

License Agreement

By purchasing and using this cell line product, the user voluntarily agrees to accept and abide by the following policies:

- This cell line product is restricted to research use only and shall not be used for any commercial purposes.
- This product is strictly prohibited from being used in the diagnosis or treatment of human or animal diseases, and shall not be directly used in experiments involving humans.
- Users and their contractors engaged for their benefit may use this material and its derivatives only within the agreed research scope; modification of the material is not permitted, nor may it be distributed, sold, transferred, or otherwise provided to any other entity (including affiliates).
- If use beyond the above scope is required, prior written permission from Genomeditech (Shanghai) Co.,Ltd. must be obtained. For details, please contact Genomeditech (Shanghai) Co.,Ltd.

Genomeditech