Genomeditech (Shanghai) Co.,Ltd.
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Product Sheet

H_ERBB3(HER3) CHO-K1 Cell Line

Catalog number: GM-C12969

Version 3.3.1.250814

Description	H_ERBB3(HER3) CHO-K1 Cell Line is a clonal stable CHO-K1 cell line constitutively expressing human ERBB3(HER3).
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_ERBB3(HER3)
Gene ID/Uniprot ID	P21860-1
Host Cell	CHO-K1

Recovery Medium	F12K+10% FBS+1% P.S
Growth medium	F12K+10% FBS+1% P.S+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.

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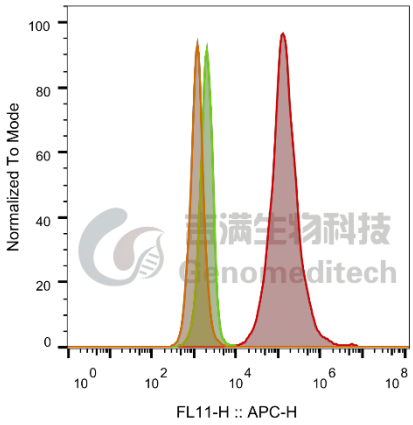
Materials

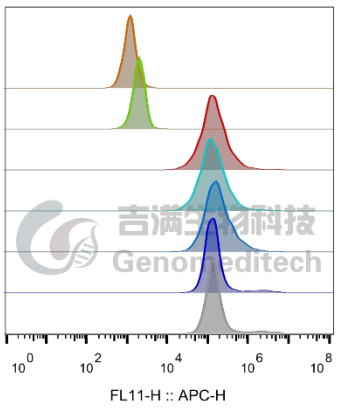
Reagent	Manufacturer/Catalogue No.
F12K	BOSTER/PYG0036
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Anti-H_ERBB3(HER3) hIgG1 Antibody(Barecetamab)	Genomeditech/GM-28858AB

Figures



SampleID	Geometric Mean : FL11-H
CHO-K1 anti-HER3+APC-2nd Ab	1209
CHO-K1 H_HER3 H_IgG+APC-2nd Ab	2007
CHO-K1 H_HER3 anti-HER3+APC-2nd Ab	143220

Figure 1 | H_ERBB3(HER3) CHO-K1 Cell Line was determined by flow cytometry using Anti-H_ERBB3(HER3) hIgG1 Antibody (Genomeditech/GM-28858AB).



SampleID	Geometric Mean : FL11-H
CHO-K1 anti-HER3+APC-2nd Ab	1209
CHO-K1 H_HER3 H_IgG+APC-2nd Ab	2007
CHO-K1 H_HER3 anti-HER3+APC-2nd Ab CP5	143220
CHO-K1 H_HER3 anti-HER3+APC-2nd Ab CP10	136954
CHO-K1 H_HER3 anti-HER3+APC-2nd Ab CP15	180525
CHO-K1 H_HER3 anti-HER3+APC-2nd Ab CP20	153138
CHO-K1 H_HER3 anti-HER3+APC-2nd Ab CP25	165491

Figure 2 | The passage stability of the H_ERBB3(HER3) CHO-K1 Cell Line (Genomeditech/GM-C12969) was determined by flow cytometry using Anti-H_ERBB3(HER3) hIgG1 Antibody (Genomeditech/GM-28858AB).

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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 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

ERBB3 P21860-1

MRANDALQVLGLLFSLARGSEVGNSQAVCPGTLNGLSVTGDAENQYQTLYKLYERCEVVMGNLEIVLTGH
NADLSFLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGTQVYDGKFAIFVMLNYNTNSSHALRQLRLTQLTEI
LSGGVYIEKNDKLCHMDTIDWRDIVRDRDAEIVVKDNGRSCPPCHEVCKGRCWGPGSEDCQTLTKTICAPQC
NGHCFGPNPNQCCHDECAGGCSGPQDTDCFACRHFNDSGACVPRCPQPLVYNKLTFQLEPNPHTKYQYGGV
CVASCPHNFVVDQTSCVRACPPDKMEVDKNGLKMCEPCGGLCPKACEGTGSGSRFQTVDSSNIDGFVNCTKI
LGNLDFLITGLNGDPWHKIPALDPEKLNVFRTVREITGYLNIQSWPPHMHNFSVFSNLTTIGGRSLYNRGFSLL
IMKNLNVTSLGFRSLKEISAGRIYISANRQLCYHHSLNWTKVLRGPTEERLDIKHNRPRRDCVAEGKVCDPLC
SSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEPREFAHEAECFSCHPECQPMEGTATCNGSGSDTCAQ
CAHFRDGPHCVSSCPHGVLGAKGPIYKYPDVQNECRPCHENCTQGCKGPELQDCLGQTLVLIGKTHLTMAL
TVIAGLVVIFMMLGGTFLYWRGRRIQNKRAMRRYLERGESIEPLDPSEKANKVLARIFKETELRKLKVLGSG
VFGTVHKGVWIPEGESIKIPVCIKVIEDKSGRQSFQAVTDHMLAIGSLDHAHIVRLLGLCPGSSLQLVTQYLPL
GSLLDHVRQHRGALGPQLLLNWGVQIAKGMYYLEEHGMVHRNLAARNVLLKSPSQVQVADFGVADLLPPD
DKQLLYSEAKTPIKWMALESIHFGKYTHQSDVWSYGVTVWELMTFGAEPYAGLRLAEVPDLLEKGERLAQP
QICTIDVYMVMVKCWMIDENIRPTFKELANEFTRMARDPPRYLVIKRESGPGIAPGPEPHGLTNKKLEEVELE
PELDLDLDLEAEEDNLATTTLGSALSLPVGTLNRPRGSQSLLSPSSGYMPMNQGNLGESCQESAVSGSSERCP
RPVSLHPMPRGCLASESSEGHVTGSEAELQEKVSMCRSRSRSRSPRPRGDSAYHSQRHSLLTPVTPLSPPGLEE
EDVNGYVMPDTHLKGTPSSREGTLSSVGLSSVLGTEEEDEDEEYEYMNRRRRHSPPHPPRPSSLEELGYEYM
DVGSDLSASLGSTQSCPLHPVPIMPTAGTTPDEDYEYMNRQRDGGGPGGDYAAMGACPASEQGYEEMRAFQ
GPGHQAPHVHYARLKTLRSLEATDSAFDNPDYWHSRLFPKANAQRT

Related Products

CLDN18	
Cynomolgus_CLDN18.2-eGFP CHO-K1 Cell Line	H_CLDN18(isoform2)-eGFP 293 Cell Line
H_CLDN18.1-eGFP HEK-293 Cell Line	H_CLDN18.2 MC38 Cell Line
H_CLDN18.2 MKN45 Cell Line(High Expression)	H_CLDN18.2 MKN45 Cell Line(Low Expression)
H_CLDN18.2 MKN45 Cell Line(Medium Expression)	H_CLDN18.2(isoform2) CHO-K1 Cell Line
H_CLDN18.2(isoform2) MKN45 Cell Line	H_CLDN18.2-eGFP CT-26 Cell Line
Mouse_CLDN18.2-eGFP CHO-K1 Cell Line	Rat_CLDN18.2-eGFP CHO-K1 Cell Line
Rhesus_CLDN18.2-eGFP CHO-K1 Cell Line	
Anti-CLDN18.2 hIgG1 Reference Antibody (IMAB362)	Anti-CLDN18.2 hIgG1 Antibody(LM-102)
Anti-CLDN18.2 hIgG1 Antibody(Zolbetuximab)	

HER3(ERBB3)	
Cynomolgus_ERBB3(HER3) CHO-K1 Cell Line	Cynomolgus_ERBB3(HER3) HEK-293 Cell Line
H_ERBB3(HER3) HEK-293 Cell Line	H_ERBB3(HER3) MC38 Cell Line
Mouse_HER3(ERBB3) CHO-K1 Cell Line	
Anti-ERBB3(HER3) hIgG1 Reference Antibody(Patribio)	Anti-H_ERBB3(HER3) hIgG1 Antibody(Barecetamab)
Biotinylated Human HER3 Protein; His-Avi Tag	Human HER3 Protein; His Tag
Mouse HER3 Protein; His Tag	
C-MET:HGF	
H_cMET: cMET Dimerization U2OS Cell Line	Cynomolgus_cMET CHO-K1 Cell Line
H_cMET CHO-K1 Cell Line	H_cMET HEK-293 Cell Line
Anti-H_HGFR(Met) hIgG4 Antibody(Emibetuzumab)	
Human HGFR(Met) Protein; His Tag	
NECTIN4	
H_NECTIN4(nectin-4) CHO-K1 Cell Line	Cynomolgus_Nectin4 CHO-K1 Cell Line
H_NECTIN4 CT26 Cell Line	H_NECTIN4 HEK-293 Cell Line
H_NECTIN4 LLC1 Cell Line	H_NECTIN4 MC38 Cell Line
Anti-H_Nectin4 hIgG1 Antibody(Enfortumab)	Anti-Nectin 4-MMAE(Dar4)[Enfortumab vedotin]
Anti-Nectin4 hIgG1 Reference Antibody (Enfobio)	
Biotinylated Cynomolgus Nectin-4 Protein; His-Avi Tag	Biotinylated Human Nectin-4 Protein; His-Avi Tag
Biotinylated Mouse Nectin-4 Protein; His-Avi Tag	Cynomolgus Nectin-4 Protein; His Tag
Human Nectin-4 Protein; His Tag	
CD276(B7H3)	
Cynomolgus_CD276 CHO-K1 Cell Line	H_CD276(B7H3) CHO-K1 Cell Line
Anti-CD276(B7H3) hIgG1 Reference Antibody(Ifibio)	Anti-CD276(B7H3)-DXD (Dar4)[Ifinatamab deruxtecan]
Biotinylated Human CD276(B7H3 2Ig) Protein; His-Avi Tag	Biotinylated Human CD276(B7H3 4Ig) Protein; His-Avi Tag
Human CD276(B7H3 2Ig) Protein; His Tag	Human CD276(B7H3 4Ig) Protein; His Tag
TROP2(TACSTD2)	
Cynomolgus_Trop2 CHO-K1 Cell Line	Cynomolgus_TROP2 HEK-293 Cell Line
H_TROP2 CHO-K1 Cell Line	H_TROP2 CT26 Cell Line
H_TROP2 HEK-293 Cell Line	H_TROP2 LLC1 Cell Line
H_TROP2 MC38 Cell Line	
Anti-H_TROP2 hIgG1 Antibody(Datopotamab)	Anti-TROP2 hIgG1 Antibody(Hu2G10-5)
Anti-Trop2 hIgG1 Reference Antibody (Sacbio)	Anti-Trop2 hIgG1 Reference Antibody(Datbio)
Anti-Trop2-DXD ADC(Dar4)[Datopotamab deruxtecan,Dato-DXD]	Anti-Trop2-SN38 ADC(Dar8)[Sacituzumab govitecan]
Biotinylated Cynomolgus TROP2 Protein; His-Avi Tag	Biotinylated Human TROP2 Protein; His-Avi Tag
Human TROP2 Protein; His Tag	
SLC39A6（LIV1）	
Cynomolgus_SLC39A6 CHO-K1 Cell Line	H_SLC39A6 CHO-K1 Cell Line
H_SLC39A6 HEK-293 Cell Line	H_SLC39A6 LLC1 Cell Line
H_SLC39A6 MC38 Cell Line	

Anti-H_SLC39A6 hIgG1 Antibody(Ladiratuzumab)	Anti-SLC39A6 hIgG1 Reference Antibody (Ladbio)
Anti-SLC39A6-MMAE ADC(Dar4)[Ladiratuzumab vedotin]	
HER2(ERBB2)	
H_HER2 HER4 Reporter HEK-293 Cell Line	Cynomolgus_HER2(ERBB2) CHO-K1 Cell Line
H_HER2 EMT6 Cell Line	H_HER2 HER3 MC38 Cell Line
H_HER2 MCF-7 Cell Line	H_HER2(ERBB2) CHO-K1 Cell Line
H_HER2(ERBB2) CT26 Cell Line	H_HER2(ERBB2) LLC1 Cell Line
H_HER2(ERBB2) MC38 Cell Line	
Anti-H_HER2 hIgG1 Antibody(Margetuximab)	Anti-HER2 hIgG1 Reference Antibody(Marbio)
Anti-HER2 hIgG1 Reference Antibody(Trasbio)	Anti-HER2-DM1 ADC(Dar4)[Trastuzumab emtansine,T-DM1]
Anti-HER2-DXD ADC(Dar8)[Trastuzumab Deruxtecan]	
Cynomolgus HER2 Protein; His Tag	Human HER2 Protein; His Tag
GUCY2C(GC-C)	
Cynomolgus_GUCY2C HEK-293 Cell Line	H_GUCY2C CHO-K1 Cell Line
H_GUCY2C HEK-293 Cell Line	
Anti-H_GUCY2C hIgG1 Antibody(Indusatumab)	
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)	Mouse anti Human IgG1-MMAE(Dar4)
Human IgG1 Isotype-DXD (Dar8)	Human IgG1 Isotype-Eribulin (Dar4)
Human IgG1 Isotype-MMAE (Dar4)	
Recombinant DT3C Protein	

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