Genomeditech (Shanghai) Co.,Ltd.
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Product Sheet

Cynomolgus_BDCA2 CHO-K1 Cell Line

Catalog number: GM-C13188

Version 3.3.1.250718

Description	Cynomolgus_BDCA2 CHO-K1 Cell Line is a clonal stable CHO-K1 cell line that constitutively expresses the cynomolgus BDCA2 and cynomolgus FCER1G 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	Cynomolgus_BDCA2 & Cynomolgus_FCER1G
Gene ID/Uniprot ID	A0A2K5UWP4 & Q8SPW1-1
Host Cell	CHO-K1
Recovery Medium	F12K+10% FBS+1% P.S
Growth medium	F12K+10% FBS+1% P.S+200 μg/mL G418+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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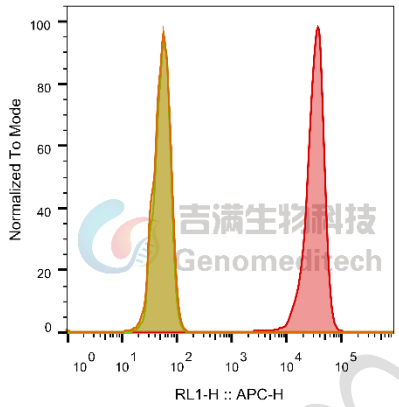
Materials

Reagent	Manufacturer/Catalogue No.
F12K	BOSTER/PYG0036
Fetal Bovine Serum	ExCell/FSP500
Puromycin	Genomeditech/GM-040401
G418	Genomeditech/GM-040402
Anti-H_BDCA2 hIgG1 Antibody(Litifilimab)	Genomeditech/GM-31294AB

Figures



SampleID	Geometric Mean : RL1-H
CHO-K1 anti-H_BDCA2+APC-2nd Ab	53.2
CHO-K1 Cyno_BDCA2 H_IgG+APC_2nd Ab	55.3
CHO-K1 Cyno_BDCA2 anti-H_BDCA2+APC-2nd Ab	29803

Figure 1 | Cynomolgus_BDCA2 CHO-K1 Cell Line (Cat. GM-C13188) was determined by flow cytometry using Anti-H_BDCA2 hIgG1 Antibody(litifilimab) (Cat. GM-31294AB).

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+200 μg/mL G418+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

CLEC4C(BDCA2) A0A2K5UWP4

MVPEEEPQDREKGVWWFQLKVWSVAVVSILLLCVCFTVSSVASHNFMYSKTVKRLSKLQEYQQYYPSLTCV
MEGKDMEDWSCCPTPWTSFQSSCYFISTVMQSWTKSQNNCSVMGADLVVINTKEEQDFITQNLKINSAYFLG
LSDPKGWRHWQWVDQTPYNKNVTFWHSGEPNSPDERCAIINFRSEEWGWNDVHCHVPQKSICKMKKIYI

FCER1G Q8SPW1

MIPAVVLLLLLLVEQAAALGEPQLCYILDAILFLYGIVLTLLYCRLKIQVRKAAIASYEKSDGVYTGLSTRNQE TYETLKHEKPPQ*

Related Products

CD40：CD40L	
H_CD40(TNFRSF5) Reporter 293 Cell Line	H_CD40(TNFRSF5) Reporter DDX35TM Jurkat Cell Line
H_CD40(TNFRSF5) Reporter Jurkat Cell Line	Cynomolgus_CD40 CHO-K1 Cell Line
Cynomolgus_CD40L CHO-K1 Cell Line	H_CD40(TNFRSF5) CHO-K1 Cell Line
H_CD40(TNFRSF5) HEK-293 Cell Line	H_CD40L CHO-K1 Cell Line
H_CD40L HEK-293 Cell Line	
Anti-CD40 hIgG1 Reference Antibody (Sotibio)	Anti-CD40 hIgG1 Reference Antibody (Tenebio)
Anti-CD40L hIgG1 Reference Antibody (Frebio)	Anti-H_CD40 hIgG1 Antibody(APX005M)
Anti-H_CD40 hIgG1 Antibody(ravagalimab)	Anti-H_CD40L hIgG1 Antibody(dapirolizumab)
Anti-H_CD40L hIgG1 Antibody(frexalimab)	
Biotinylated Human CD40 Protein; His-Avi Tag	Cynomolgus CD40 Protein; His Tag
Human CD40 Protein; His Tag	Human CD40L Protein; His Tag
IFN-α	
IFNα Reporter HEK-293 Cell Line	IFNα Reporter MDCK Cell Line
IFNα Reporter THP1 Cell Line	
BCMA:BAFFR:TACI	
H_BAFFR Jurkat Blockade Reporter Cell Line	H_BAFFR Reporter Cell Line
H_BCMA Reporter Cell Line	H_TACI Reporter Cell Line
Cynomolgus_BCMA CHO-K1 Cell Line	H_BCMA CHO-K1 Cell Line
H_BCMA HEK-293 Cell Line	
Anti-BAFF hIgG1 Antibody(belimumab)	Anti-BAFFR hIgG1 Antibody(ianalumab)
Anti-BCMA hIgG1 Antibody(Belantamab)	Anti-BCMA hIgG1 Antibody(SEA-BCMA)
Anti-BCMA hIgG4 Antibody(BCMB69)	Anti-TNFSF13B(BAFF) hIgG1 Reference Antibody (Belibio)
Biotinylated Human BAFF Protein; His-Avi Tag	Cynomolgus BAFF Protein; His Tag
Human BAFF Protein; His Tag	Mouse BAFF Protein; His Tag
BDCA2(CLEC4C)	
H_BDCA2 Reporter DDX35TM Jurkat Cell Line	H_BDCA2 Reporter Jurkat Cell Line
Cynomolgus_BDCA2 Jurkat Cell Line	H_BDCA2 CHO-K1 Cell Line
H_BDCA2 HEK-293 Cell Line	H_BDCA2 Jurkat Cell Line
Anti-H_BDCA2 hIgG1 Antibody(Litifilimab)	
Cynomolgus BDCA2 Protein; His Tag	Human BDCA2 Protein; His Tag

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