

Product Sheet

H_CLDN18.2 PANC-1 Cell Line

Catalog number: GM-C33064

Version 3.3.1.260903

Description	H_CLDN18.2 PANC-1 Cell Line is a clonal stable PANC-1 cell line that constitutively expresses the Human CLDN18.2 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 CLDN18.2
Gene ID/Uniprot ID	P56856-2
Host Cell	PANC-1
Recovery Medium	DMEM+10% FBS+1% P.S+1.5 µg/mL Puromycin
Growth medium	DMEM+10% FBS+1% P.S
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.

Materials

Reagent	Manufacturer/Catalogue No.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/ GM-040401
Anti-CLDN18.2 hIgG1 Antibody(LM-102)	Genomeditech/ GM-81801AB

Figures

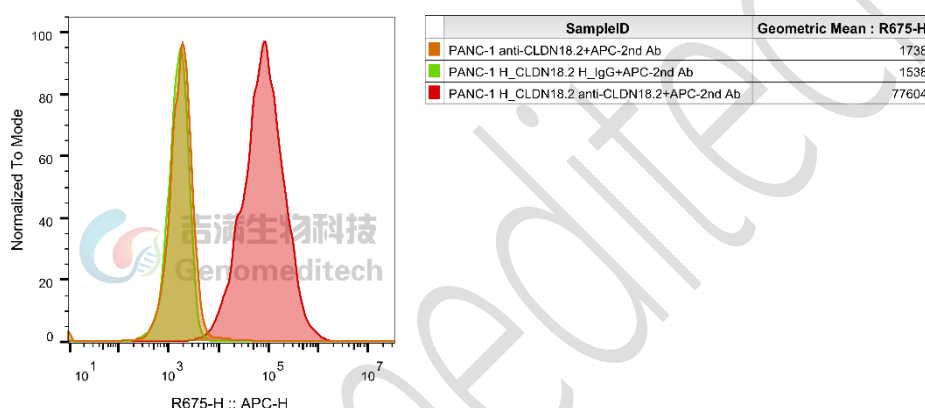


Figure 1 | H_CLDN18.2 PANC-1 Cell Line (Cat. GM-C33064) was determined by flow cytometry using Anti-CLDN18.2 hIgG1 Antibody(LM-102) (Cat. [GM-81801AB](#)).

Cell Recovery

Recovery Medium: DMEM+10% FBS+1% P.S+1.5 µg/mL Puromycin

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.

- 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).
- 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.
- 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.
- 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% CO₂ in air atmosphere is recommended if using the medium described on this product sheet.

Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

- Centrifuge at 176 x g for 3 minutes to collect cells.
- Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.
- Aliquot 1 mL into each vial.
- 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: DMEM+10% FBS+1% P.S

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

- It is recommended to incubate the cells in a humidified incubator for 16-24 hours before microscopic examination. It is important to maintain confluency below 90%, exceeding this density may result in contact inhibition-induced reductions in cell viability due to mechanical compression.
- Remove and discard culture medium.
- Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.
- 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).
- 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.
- Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting.
- After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels. Incubate cultures at 37°C. (calculate seeding density according to the culture surface area and cell density to achieve a post-passage confluency of 30–50%).
- Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:2 - 1:3 is recommended

Medium Renewal: Every 3 to 5 days

Notes

- Once the cellular state stabilizes, the number of dead cells decreases after passaging, the cell growth rate becomes steady, the cell morphology becomes uniform, and the cells exhibit robust and healthy morphology.
- FBS should be heat-inactivated at 56°C for 30 minutes to inactivate complement and certain viruses, with minimal impact on most growth factor and cytokine activities.

- c) Cells exhibit diverse morphologies; confluency should preferably be maintained between 50% and 90%. The culture medium must not become overly acidic, otherwise the cells tend to develop increased processes.

Sequence

CLDN18.2 P56856-2

MAVTACQGLGFVVSLIGIAGIIAATCMDQWSTQDLNNPVTAVFNYQGLWRSCVRESSGFTECRGYFTLLGL
PAMLQAVRALMIVGIVLGAIGLLVSIFALKCIRIGSMEDSAKANMTLTSGIMFIVSGLCAIAGVSVFANMLVTN
FWMSTANMYTGMGGMVQTVQTRYTFGAALFVGWVAGGLTLIGGVMMCIACRGLAPEETNYKAVSYHAS
GHSVAYKPGGFKASTGFGSNTKNKKIYDGGARTEDEVQSYPSKHDYV

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-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)	
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
Anti-H_TROP2 hIgG1 Antibody(Datopotamab)	Anti-TROP2 hIgG1 Antibody(Hu2G10-5)
Anti-Trop2 hIgG1 Reference Antibody (Sabcio)	Anti-Trop2 hIgG1 Reference Antibody(Datbio)
Anti-Trop2-DXD ADC(Dar4)[Datopotamab deruxtecán,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; hFc Tag	Human TROP2 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)	
Cynomolgus GUCY2C Protein; His Tag	Human GUCY2C Protein; His Tag
CD3	
Cynomolgus_CD3D CD3E Reporter Jurkat(CD3DE KO) Cell Line	Jurkat CD3-BsAb Reporter Cell Line
Cynomolgus_CD3 HEK-293 Cell Line	Cynomolgus_CD3E(Membrane Bound ECD) CHO-K1 Cell Line
H_CD3 CHO-K1 Cell Line	H_CD3 HEK-293 Cell Line

H_CD3(TCR V2) CHO-K1 Cell Line	H_CD3(TCR V2) HEK-293 Cell Line
H_CD3(TCR $\alpha\beta$ delta V) HEK-293 Cell Line	H_CD3D CD3E KO Jurkat Cell Line
H_CD3E KO Jurkat Cell Line	H_CD3E(Membrane Bound ECD) CHO-K1 Cell Line
Mouse_CD3 HEK-293 Cell Line	
Anti-CD19 $\times$ CD3 hIgG1 Antibody[PIT-565(CD58 K34A)]	Anti-CD3 epsilon hIgG1 Antibody [OKT-3 (muromonab)]
Anti-CD3 hIgG1 Antibody(CH2527)	Anti-CD3 $\times$ CD20 hIgG1 Bispecific Antibody (Epcobio)
Anti-CD3 $\times$ FCRL5 hIgG1 Bispecific Antibody(cevostamab)	Anti-CD3E $\times$ BCMA hIgG4 Reference Antibody (Tecbio)
Anti-CD3E $\times$ DLL3 hIgG1 Bispecific Antibody(Tarlabio)	Anti-CD3E $\times$ MUC17 hIgG1 Bispecific Antibody(Vepsitbio)
Anti-mouse CD3 ϵ mIgG2a Antibody(145-2C11)	
FGFR2	
H_FGFR2b Reporter 293 Cell Line	Cynomolgus_FGFR2b HEK-293 Cell Line
H_FGFR2b CHO-K1 Cell Line	H_FGFR2b HEK-293 Cell Line
Mouse_FGFR2b HEK-293 Cell Line	
Anti-FGFR2 hIgG1 Antibody(hFR2-14_H12-L1)	Anti-FGFR2 hIgG1 Reference Antibody (Bemabio)
Cynomolgus FGFR2(IIIb) D1-D3 Protein; His Tag	Human FGFR2(IIIb) D1-D3 Protein; hFc Tag
Human FGFR2(IIIb) D2-D3 Protein; hFc Tag	Human FGFR2(IIIb) D2-D3 Protein; His Tag
Human FGFR2(IIIc) D1-D3 Protein; His Tag	Mouse FGFR2(IIIb) D2-D3 Protein; His Tag
CLDN3	
H_CLDN3 HEK-293 Cell Line	
Anti-CLDN3 hIgG1 Antibody(H4G3)	
CLDN4	
H_CLDN4 HEK-293 Cell Line	
Anti-CLDN4 hIgG1 Antibody(4B8)	
CLDN6	
Cynomolgus_CLDN6 CHO-K1 Cell Line	H_CLDN6 CHO-K1 Cell Line
H_CLDN6 HEK-293 Cell Line	H_CLDN6 LLC1 Cell Line
H_CLDN6 MC38 Cell Line	Mouse_CLDN6 CHO-K1 Cell Line
Rat_CLDN6 CHO-K1 Cell Line	
Anti-Claudin6 hIgG1 Reference Antibody	Anti-CLDN6/9 hIgG1 Antibody
CLDN9	
H_CLDN9 CHO-K1 Cell Line	H_CLDN9-eGFP HEK-293 Cell Line
CLDN1	
Cynomolgus_CLDN1 CHO-K1 Cell Line	H_CLDN1 CHO-K1 Cell Line
H_CLDN1 HCT116 Cell Line	Mouse_CLDN1-GFP CHO-K1 Cell Line
Anti-CLDN1 hIgG1 Reference Antibody (Lixubio)	
CD44	
H_CD44s CHO-K1 Cell Line	H_CD44v6 CHO-K1 Cell Line
H_CD44v6 CHO-K1 Cell Line (Medium Expression)	H_CD44v6 HEK-293 Cell Line
Anti-CD44v6 hIgG1 Antibody(bivatuzumab)	
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	

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