

Product Sheet

H_CLDN1 HCT116 Cell Line

Catalog number: GM-C35057

Version 3.3.1.260709

Description	H_CLDN1 HCT116 Cell Line is a clonal stable HCT116 cell line that constitutively expresses the human CLDN1 gene, constructed using lentiviral technology.
Quantity	5E6 Cells per vial, 1 mL
Product Format	1 vials of frozen cells
Shipping	Shipped on dry ice
Storage Conditions	Liquid nitrogen immediately upon receipt
Target	Human_CLDN1
Gene ID/Uniprot ID	O95832
Host Cell	HCT116
Recovery Medium	McCoy's 5A+10% FBS+1% P.S
Growth medium	McCoy's 5A+10% FBS+1% P.S+0.5 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.

Materials

Reagent	Manufacturer/Catalogue No.
McCoy's 5A	VivaCell/C3020-0500
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/ GM-040401
Anti-CLDN1 hIgG1 Reference Antibody (Lixubio)	Genomeditech/ GM-88096MAB

Figures

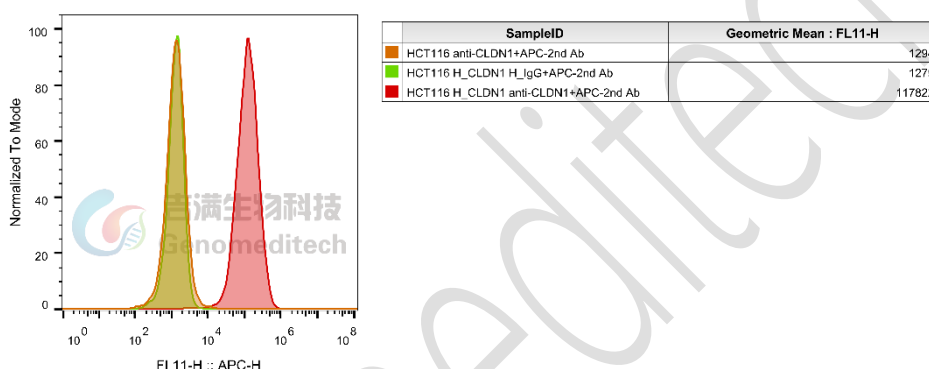


Figure 1 | H_CLDN1 HCT116 Cell Line (Cat. GM-C35057) was determined by flow cytometry using Anti-CLDN1 hIgG1 Reference Antibody (Lixubio) (Cat. [GM-88096MAB](#)).

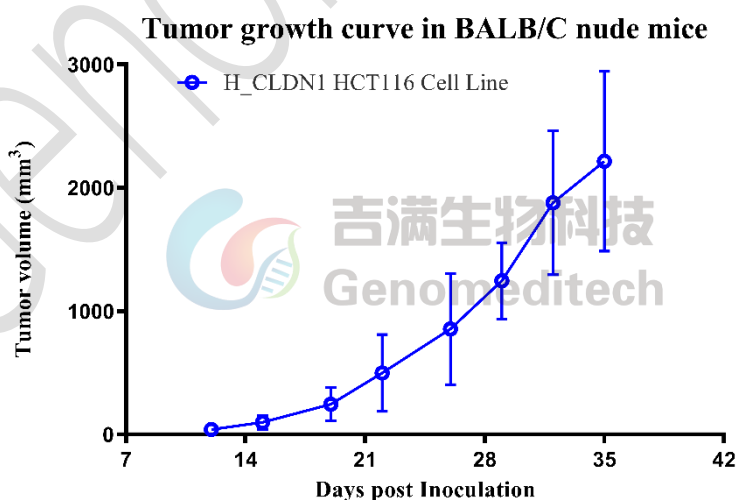


Figure 2 | Tumor growth curves of H_CLDN1 HCT116 Cell Line in BALB/C nude mice. H_CLDN1 HCT116 cells (1×10^6 per mouse) were subcutaneously inoculated into BALB/C nude mice (female, 8 weeks old, n = 2). Tumor volume was measured twice per week and is presented as mean $\pm$ SEM.

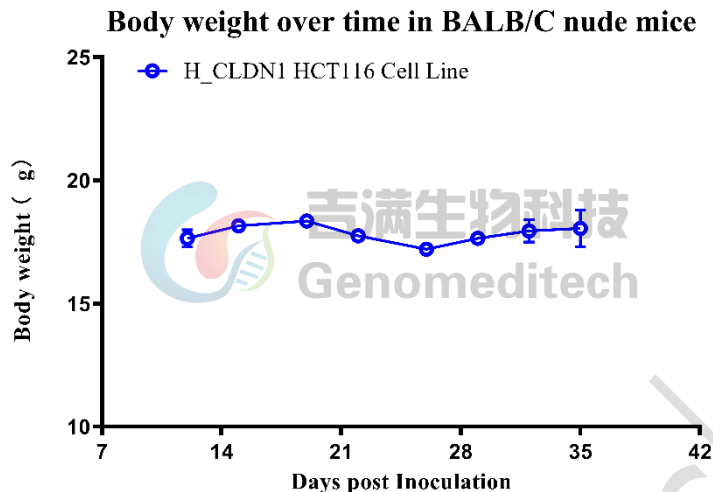


Figure 3 | Body weight changes after implantation of H_CLDN1 HCT116 in BALB/C nude mice. Under the same conditions, body weight was measured twice per week and is presented as mean $\pm$ SEM.

Cell Recovery

Recovery Medium: McCoy's 5A+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.

- 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 $176 \times g$ for 5 minutes. Discard supernatant.
- 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% CO_2 in air atmosphere is recommended if using the medium described on this product sheet.

Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

- Centrifuge at $176 \times g$ for 3 minutes to collect cells.
- Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5×10^6 cells/mL.
- 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: McCoy's 5A+10% FBS+1% P.S+0.5 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.

- 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 1 to 2 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.

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

Medium Renewal: Every 1 to 2 days

Notes

- 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

CLDN1 [O95832](#)

MANAGLQLLGFI~~LA~~FLGWIGAI~~V~~STALPQWRIYSYAGDNIVTAQAMYEG~~L~~WMSCVSQSTGQIQCKVFDSL~~L~~N
LSSTLQATRALMVVGILLGVIAIFVATVGMKCMKCLEDDEVQKMRMAVIGGAIFLLAGLAILVATAWYGNRI
VQEFYDPMPVNVARYEFGQALFTGWAAASLCLLGALLCCSCPRKTTSYPTPRPYKPPAPSSGKDYV

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)	
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	Rhesus_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
Mouse_CLDN1-GFP CHO-K1 Cell Line	
Anti-CLDN1 hIgG1 Reference Antibody (Lixubio)	

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