

# Product Sheet

## H\_HER2(ERBB2) CT26 Cell Line

Catalog number: GM-C32896

Version 3.3.1.260625

|                              |                                                                                                                                                                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>           | H_HER2(ERBB2) CT26 Cell Line is a clonal stable CT26 cell line that constitutively expresses the human HER2(ERBB2) gene, constructed using lentiviral technology. |
| <b>Quantity</b>              | 5E6 Cells per vial, 1 mL                                                                                                                                          |
| <b>Product Format</b>        | 1 vials of frozen cells                                                                                                                                           |
| <b>Shipping</b>              | Shipped on dry ice                                                                                                                                                |
| <b>Storage Conditions</b>    | Liquid nitrogen immediately upon receipt                                                                                                                          |
| <b>Target</b>                | Human_HER2(ERBB2)                                                                                                                                                 |
| <b>Gene ID/Uniprot ID</b>    | P04626-1                                                                                                                                                          |
| <b>Host Cell</b>             | CT26                                                                                                                                                              |
| <b>Recovery Medium</b>       | RPMI 1640+10% FBS+1% P.S                                                                                                                                          |
| <b>Growth medium</b>         | RPMI 1640+10% FBS+1% P.S+4 µg/mL Puromycin                                                                                                                        |
| <b>Note</b>                  | None                                                                                                                                                              |
| <b>Freezing Medium</b>       | 90% FBS+10% DMSO                                                                                                                                                  |
| <b>Growth properties</b>     | Adherent                                                                                                                                                          |
| <b>Growth Conditions</b>     | 37°C, 5% CO <sub>2</sub>                                                                                                                                          |
| <b>Mycoplasma Testing</b>    | The cell line has been screened to confirm the absence of Mycoplasma species.                                                                                     |
| <b>Safety considerations</b> | Biosafety Level 2                                                                                                                                                 |
| <b>Note</b>                  | 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.                |
|--------------------------------------------|-------------------------------------------|
| RPMI 1640                                  | gibco/C11875500BT                         |
| Fetal Bovine Serum                         | ExCell/FSP500                             |
| Pen/Strep                                  | Thermo/15140-122                          |
| Puromycin                                  | Genomeditech/ <a href="#">GM-040401</a>   |
| Anti-HER2 hIgG1 Reference Antibody(Marbio) | Genomeditech/ <a href="#">GM-87130MAB</a> |

## Figures

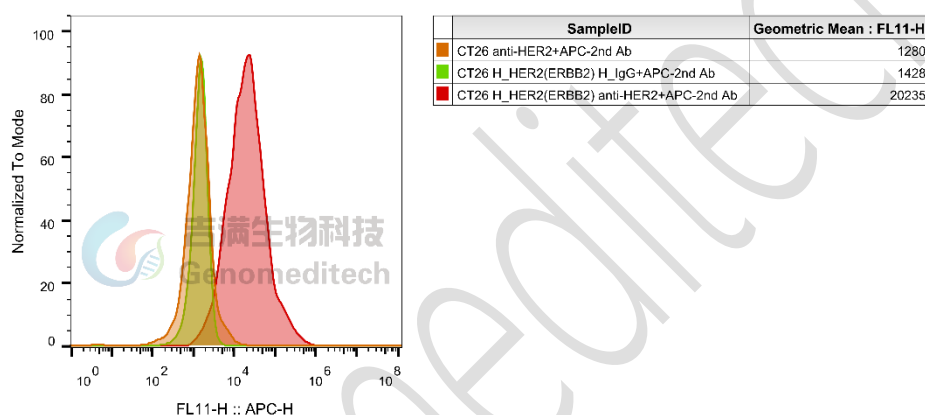


Figure 1 | H\_HER2(ERBB2) CT26 Cell Line (Cat. GM-C32896) was determined by flow cytometry using Anti-HER2 hIgG1 Reference Antibody(Marbio)(Cat.[GM-87130MAB](#)).

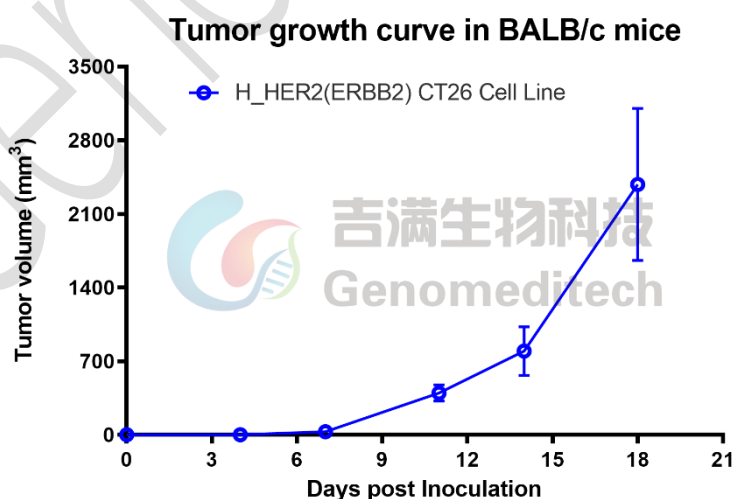


Figure 2 | Tumor growth curves of H\_HER2(ERBB2) CT26 in BALB/c mice. H\_HER2(ERBB2) CT26 cells ( $1 \times 10^6$  per mouse) were subcutaneously inoculated into BALB/c mice (female, 8 weeks old, n = 3). Tumor volume was measured twice per week and is presented as mean  $\pm$  SEM.

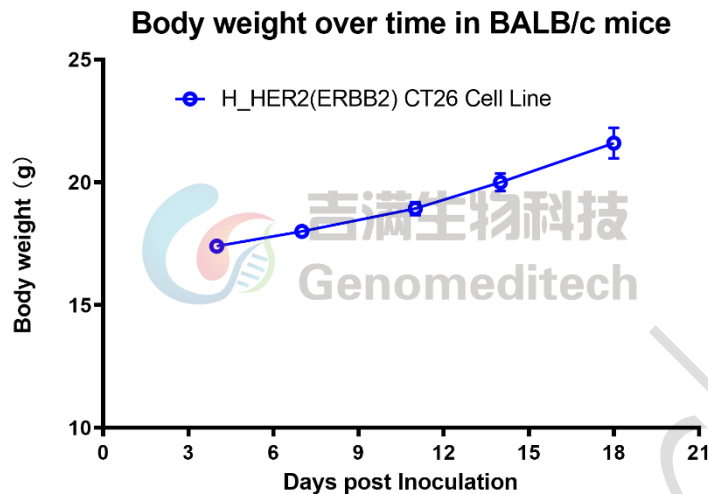


Figure 3 | Body weight changes after implantation of H\_HER2(ERBB2) CT26 in BALB/c mice. Under the same conditions, body weight was measured twice per week and is presented as mean  $\pm$  SEM.

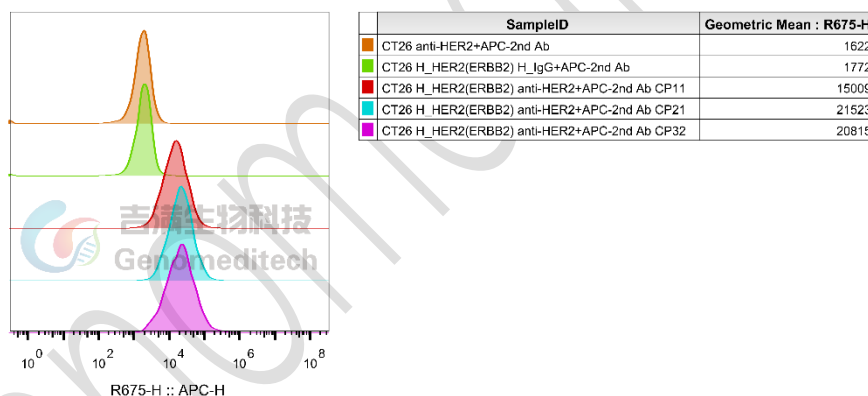


Figure 4 | The passage stability of the H\_HER2(ERBB2) CT26 Cell Line (Cat. GM-C32896) was determined by flow cytometry using Anti-HER2 hIgG1 Reference Antibody(Marbio) (Cat.[GM-87130MAB](#)).

## Cell Recovery

Recovery Medium: RPMI 1640+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  $-70^{\circ}\text{C}$ . Storage at  $-70^{\circ}\text{C}$  will result in loss of viability.

- Thaw the vial by gentle agitation in a  $37^{\circ}\text{C}$  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  $176 \times g$  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<sub>2</sub> 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  $176 \times g$  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: RPMI 1640+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 30 to 60 seconds 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 1:3 - 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

HER2(ERBB2) [P04626-1](#)

MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRASPETHLDMRLHYQGCQVVQGNLELTYPNTASL  
SFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLR  
SLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRWGESSEDCQSLT  
RTVCAGGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLACLFHNHSGICELHCPALVTYNTDTFESMPNPEGR  
YTFGASCVTACPYNYLSTDVGSCTLVCPHNQEVTAEDGTQRCCKSKPCARVCYGLGMEHLREVRAVTS  
NIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPLSVFQNLQVIRGRI  
LHNGAYSLTLQGLGISWLGLRSLRELGSGLALIHNTLHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGE  
GLACHQLCARGHCWGPPTQCVNCSQFLRGQECVEECRVLQGLPREYVNAHCLPCHPECQPQNGSVTCFG  
PEADQCVACAHYKDPFPCVARCPSPGVKPDLSYMPIWKFPDEEGACQPCINCTHSCVDLDDKGCPAEQRASP  
LTSIISAVVGILLVVVLGVVFGILIKRRQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVK  
VLGSGAFGTVYKGIWIPDGENVKIPVAIKVLRNTSPKANKEILDEAYVMAGVGSPPYVSRLLGICLTSTVQLV  
TQLMPYGCLLDHVRENRLGSLQDLLNWCMIKAGMSYLEDVRLVHRDLAARNVLKSPNHVKITDFGLA  
RLLDIDETEHADGGKVPIKWMALLESILRRRFTHQSDVWSYGVTWELMTFGAKPYDGIPAREIPDLLEKGE  
RLPQPPICTIDVYMIMVKCWMIDSECRPRFRELVSFESRMARDPQRFVVIQNEGLGPASPLDSTFYRSLLEDD  
MGDLVDAEEYLVPQQGFFCPDPAPGAGGMVHHRHRSSTRSGGDLTLGLEPSEEEAPRSPLAPSEGAGSDV  
FDGDLGMGAAGKLQSLPHTDPSPLQRYSEDPTVPLPSETDGYVAPLTCSPQPEYVNPQDVRPQPPSPREGPLP  
AARPAGATLERPKTLSPGKNGVVKDVFAFGGAVENPEYLTPOGGAAPQPHPPAFSPAFLNLYYWDQDPPE  
RGAPPSTFKGTPTAENPEYLGLDVPV

## Related Products

| EGFR:HER2:HER3:HER4                                                |                                                              |
|--------------------------------------------------------------------|--------------------------------------------------------------|
| <a href="#">H_EGFR Reporter Cell Line</a>                          | <a href="#">H_HER2 HER4 Reporter HEK-293 Cell Line</a>       |
| <a href="#">Cynomolgus_EGFR CHO-K1 Cell Line</a>                   | <a href="#">Cynomolgus_ERBB3(HER3) CHO-K1 Cell Line</a>      |
| <a href="#">Cynomolgus_ERBB3(HER3) HEK-293 Cell Line</a>           | <a href="#">Cynomolgus_HER2(ERBB2) CHO-K1 Cell Line</a>      |
| <a href="#">H_EGFR CHO-K1 Cell Line</a>                            | <a href="#">H_EGFR HEK-293 Cell Line</a>                     |
| <a href="#">H_EGFRvIII CHO-K1 Cell Line</a>                        | <a href="#">H_ERBB3(HER3) CHO-K1 Cell Line</a>               |
| <a href="#">H_ERBB3(HER3) HEK-293 Cell Line</a>                    | <a href="#">H_ERBB3(HER3) MC38 Cell Line</a>                 |
| <a href="#">H_HER2 EMT6 Cell Line</a>                              | <a href="#">H_HER2 HER3 MC38 Cell Line</a>                   |
| <a href="#">H_HER2 MCF-7 Cell Line</a>                             | <a href="#">H_HER2(ERBB2) CHO-K1 Cell Line</a>               |
| <a href="#">H_HER2(ERBB2) LLC1 Cell Line</a>                       | <a href="#">H_HER2(ERBB2) MC38 Cell Line</a>                 |
| <a href="#">Mouse_HER3(ERBB3) CHO-K1 Cell Line</a>                 | <a href="#">H_EGFR LGR5 CT26 Cell Line</a>                   |
| <a href="#">H_EGFR LGR5 HEK-293 Cell Line</a>                      |                                                              |
| <a href="#">Anti-EGFR hIgG1 Reference Antibody (Cetbio)</a>        | <a href="#">Anti-EGFR hIgG1 Reference Antibody (Necbio)</a>  |
| <a href="#">Anti-ERBB3(HER3) hIgG1 Reference Antibody(Patibio)</a> | <a href="#">Anti-H_EGFR hIgG1 Antibody(Necitumumab)</a>      |
| <a href="#">Anti-H_ERBB3(HER3) hIgG1 Antibody(Barecetamab)</a>     | <a href="#">Anti-H_HER2 hIgG1 Antibody(Margetuximab)</a>     |
| <a href="#">Anti-HER2 hIgG1 Reference Antibody(Marbio)</a>         | <a href="#">Anti-HER2 hIgG1 Reference Antibody(Trasbio)</a>  |
| <a href="#">Biotinylated Cynomolgus EGFR Protein; His-Avi Tag</a>  | <a href="#">Biotinylated Human EGFR Protein; His-Avi Tag</a> |
| <a href="#">Biotinylated Human HER3 Protein; His-Avi Tag</a>       | <a href="#">Cynomolgus HER2 Protein; His Tag</a>             |

|                             |                             |
|-----------------------------|-----------------------------|
| Human EGFR Protein; hFc Tag | Human EGFR Protein; His Tag |
| Human HER2 Protein; hFc Tag | Human HER2 Protein; His Tag |
| Human HER3 Protein; hFc Tag | Human HER3 Protein; His Tag |
| Mouse HER3 Protein; His Tag |                             |

## License Agreement:

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

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