

CHO-HER2 | 305413H

General information

Description	CHO-HER2 cells are a derivative of CHO (Chinese Hamster Ovary) cells, genetically engineered to express high levels of HER2 (ErbB2/CD340) on their cell surface. These cells are used for antibody screening, ADCC/CDC assays, and HER2-targeted therapy development. The cells are grown in DMEM/F12 medium supplemented with 10% FBS and 10% HEPES. The cells are maintained in a humidified atmosphere of 5% CO2 at 37°C.
Organism	CHO
Tissue	CHO
Disease	Chinese hamster ovary, non-neoplastic; genetically engineered for HER2 (ErbB2/CD340) surface expression (high expression level)
Applications	Antibody screening; ADCC/CDC assays; HER2-targeted therapy development; breast/gastric cancer research; flow cytometry
Synonyms	CHO-HER2

Cell characteristics

Age	CHO
Gender	CHO
Morphology	CHO cells
Cell type	Epithelial cells
Growth properties	CHO cells

Additional information

Citation	CHO-HER2 (CHO cells expressing Cytion 305413H)
Biosafety level	1
NCBI_TaxID	10029

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**Thawing and
Culturing Cells**

1. Thaw the vial rapidly in a water bath at 37 °C. Remove the vial as soon as the contents have thawed and transfer the cells to a sterile tube. Centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of complete medium. Seed the cells into a 25 cm² flask containing 10 ml of complete medium.
2. Incubate the cells at 37 °C in a humidified atmosphere of 5% CO₂. The cells should reach confluence within 7-10 days.
3. Once the cells are confluent, they can be used for experiments or passaged. To passage the cells, trypsinize them and seed them into a new flask.
4. The cells should be passaged every 3-4 days to maintain them in the exponential growth phase.
5. For long-term storage, harvest the cells and cryopreserve them in liquid nitrogen.
6. The cells should be stored at -150 °C to -196 °C.
7. For thawing, transfer the vial to a water bath at 37 °C and thaw rapidly.
8. After thawing, centrifuge the cells and resuspend them in complete medium.

**Incubation
Atmosphere**

37 °C, 5% CO₂, humidified atmosphere.

**Shipping
Conditions**

Cryopreserved cell lines are shipped on dry ice in validated, insulated packaging with sufficient refrigerant to maintain approximately -78 °C throughout transit. On receipt, inspect the container immediately and transfer vials without delay to appropriate storage.

**Storage
Conditions**

For long-term preservation, place vials in vapor-phase liquid nitrogen at about -150 to -196 °C. Storage at -80 °C is acceptable only as a short interim step before transfer to liquid nitrogen.

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Sterility

The cells are tested for sterility using PCR and other methods. The results show that the cells are free of contamination.