

CHO-HER2 CHO-HER2 | 305413MH

General information

Description	<p>Chinese hamster ovary (CHO) cells stably transfected with a human HER2 (ErbB2/CD340) cDNA expression vector. The cells express HER2 on their cell surface at a medium-high level.</p>
Organism	Chinese hamster ovary (CHO)
Tissue	Epithelial cells
Disease	Chinese hamster ovary, non-neoplastic; genetically engineered for HER2 (ErbB2/CD340) surface expression (medium-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	1-3 passages
Gender	Not applicable
Morphology	Epithelial cells
Cell type	Epithelial cells
Growth properties	Adherent

Identification and safety

Citation	CHO-HER2 High (ATCC CRL-2909) 305413MH
Biosafety level	1
NCBI_TaxID	10029

Product sheet

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CellosaurusAccession CVCL_A8W7

GMO Status GMO-S1: This CHO derivative contains a medium-to-high HER2 expression construct for evaluating HER2-targeted therapeutics. This classification applies only within Germany and may differ elsewhere.

Receptors expressed HER2

Culture Medium

DMEM: DMEM:Ham's F12 (1:1) 3.1 µg/ml Insulin 2.5 µg/ml Transferrin 15 µg/ml InSCREENeX InSCREENeX INS-ME-1039

Supplements

5% FBS (G418-Sulfat) 0.5 µg/ml

Dissociation Reagent

Trypsin-EDTA

Doubling time

approx. 14-16 hours

Subculturing

1:2 to 1:5 in PBS

Split ratio

1 to 5

Seeding density

2 to 5 x 10⁴ cells/cm²

Fluid renewal

2 to 3 times per week

Post-Thaw Recovery

1:2 to 1:3 in T25 flasks

Freeze medium

(5% FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Remove the vial and transfer the cells to a pre-warmed tube.
2. Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 ml of pre-warmed medium.
3. Seed the cells into a T75 flask containing 70% pre-warmed medium.
4. Incubate the cells at 37°C in a humidified atmosphere with 5% CO₂.
5. Once cells reach confluence, passage them into a new T75 flask.
6. Repeat the process for the remaining vials.
7. Store the cells in liquid nitrogen for long-term preservation.
8. Thaw and culture the cells as described above.

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.

Genotyping / HLA

Sterility

Genotyping (PCR) results are available upon request. For more information, please contact our technical support team.