

HEK293-HER2 | 305422

HEK293-HER2

Description

HEK293-HER2 is a HEK293 cell line stably expressing human HER2 (EGFR). HER2 expression is approximately 75,000 copies per cell (Perjeta).

HEK293-HER2 cells are used for the production of recombinant proteins, antibodies, and viral vectors.

Organism Human

Tissue HEK293

HEK293-HER2

Age 1-2

Gender Male

Morphology Adherent

Growth properties 37°C, 5% CO₂

HEK293-HER2

Citation HEK293-HER2 (HEK293 Cytion 305422)

Biosafety level 1

NCBI_TaxID 9606

GMO Status GMO-S1: HEK293 cells expressing human HER2

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Receptors expressed HER2

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Culture Medium RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS, 1 mM β -mercaptoethanol, 10 mM HEPES, 1% NEAA, Geneticin (G418-Sulfat) 1 mg/ml

Dissociation Reagent Trypsin-EDTA

Subculturing Seed cells into fresh medium. Wash cells with PBS. Add trypsin-EDTA to the cells. Incubate at 37°C for 2-3 minutes.

Split ratio A ratio of 1:2 is recommended for the initial split after thawing. A ratio of 1:5 to 1:10 is recommended for routine culture.

Fluid renewal 2-3 times per week

Post-Thaw Recovery Seed cells into fresh medium. Wash cells with PBS. Add trypsin-EDTA to the cells. Incubate at 37°C for 2-3 minutes. Seed cells into fresh medium. Wash cells with PBS. Add trypsin-EDTA to the cells. Incubate at 37°C for 2-3 minutes. Seed cells into fresh medium. Wash cells with PBS. Add trypsin-EDTA to the cells. Incubate at 37°C for 2-3 minutes.

Freeze medium Seed cells into fresh medium. Wash cells with PBS. Add trypsin-EDTA to the cells. Incubate at 37°C for 2-3 minutes. Seed cells into fresh medium. Wash cells with PBS. Add trypsin-EDTA to the cells. Incubate at 37°C for 2-3 minutes. Seed cells into fresh medium. Wash cells with PBS. Add trypsin-EDTA to the cells. Incubate at 37°C for 2-3 minutes.

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 ml of pre-warmed medium.
3. Seed the cells into a 150 cm² flask containing 150 ml of pre-warmed medium.
4. Incubate the cells at 37°C with 5% CO₂ until they reach 70% confluency.
5. Harvest the cells by trypsinization. Seed them into a 150 cm² flask containing 150 ml of pre-warmed medium.
6. Incubate the cells at 37°C with 5% CO₂ until they reach 70% confluency.
7. Harvest the cells by trypsinization. Seed them into a 150 cm² flask containing 150 ml of pre-warmed medium.
8. Incubate the cells at 37°C with 5% CO₂ until they reach 70% confluency.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium

Freezing Procedure Harvest cells by trypsinization. Resuspend in freezing medium. Freeze at -80°C.

Shipping Conditions Store at -80°C.

Storage Conditions Store at -150°C for 196 days.

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Sterility The cells are free of mycoplasmas and PCR detectable viruses.