HEK293-CLDN18.2

305986

GENERAL INFORMATION

Description

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GMO status details

GMO-S1: This HEK293 cell line contains a CLDN18.2 expression construct for tight junction antigen studies and targeted cancer therapy development. This classification applies only within Germany and may differ elsewhere.

Biosafety level	1

CHARACTERISTICS

Morphology	□□□□□□□□□□□□□□□□□□□□□□
Cell type	□□□□□□□□□□□□□□□□
Doubling time	□□□□□□ 24-36 □□□□□□□

IDENTIFIERS

Citation

HEK293-CLDN18.2 (□□□□□□□□□□□□□□□□□ Cytion 305986)

NCBI TaxID	9606
Cellosaurus	CVCL_E5J2

EXPRESSION AND SUSCEPTIBILITY

Surface antigens

CLDN18.2

Receptors expressed

CDLN18.2

HANDLING AND CULTURE

Culture medium

RPMI 1640, w: 2.0 mM □□□□□□□□□□□□□□□, w: 2.0 □□□□/□□□□ NaHCO3 (□□□□□□□□□□□□□□□ Cytion 820700a)

Incubation atmosphere	37°C, 5%CO2, □□□□□□□□□□□□□

Supplements

□□□□ FBS 10%, □□□□□□□□□□□□□□□ 1 mM, HEPES 10 mM □□□ NEAA 1% □□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□ Blasticidin (Blasticidin hydrochloride) □□□□□□□□□□□□□□□□□□□□□□□□□□ 5 µg/mL

Dissociation reagent	□□□□□□□-□□□□□□□

Subculturing

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Post-thaw recovery	□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□ 1:2 □□□ 1:3 □□ □□□□□□□□□□□□□□□□ T25 □□ □□□□□□□□□□□□□□□□ (□□□□□□□□□□□□□□□□□□□□□□□□□□) □□□□□□□□□□□□□□ □□□□ 24 □□□□□□□□

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit. Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

QUALITY CONTROL AND CRYOPRESERVATION

Sterility

□□ PCR □□□□□□□□□□□□□□□□□□□□

LEGAL AND SAFETY

Safety precautions

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