SW-480

300302

GENERAL INFORMATION

Description

□ซลล์ไลน์ SW480 มีต้นกำ □ □นิดจากชิ้น □นื้อผ่าตัดของ □นื้องอกปฐมภูมิชนิดอะดีโนคาร์ซิโนมาของลำไส้ใหญ่ที่มีการแยกตัวในระดับปานกลาง

Tissue	ลำไส้ใหญ่
Disease	มะ □ร็งชนิดอะดีโนคาร์ซิโนมา ระดับ 4 ประ □ภท Dukes' B

Synonyms

- SW480
- SW 480
- SW480E

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Morphology	ลักษณะคล้าย □ยื่อบุผิว
Tumourigenic	ใช่ ในหนูที่ไม่มีขน
Doubling time	20 ถึง 25 ชั่วโมง

IDENTIFIERS

Citation

SW-480 (หมาย □ลขแคตตาล็อก Cytion 300302)

NCBI TaxID	9606
Cellosaurus	CVCL_0546

EXPRESSION AND SUSCEPTIBILITY

Receptors expressed

ปัจจัยการ □จริญ □ติบโตของผิวหนัง (EGF), □คราติน (การย้อมด้วยอิมมูโน □พอร์ออกซิ □ดส) มาทริไลซิน , □มทัลโลโปรตี □นสที่ □กี่ยวข้องกับภาวะลุกลามของ □นื้องอก , ไม่มีการแสดงออก

Protein expression

□ซลล์แสดงระดับโปรตีน p53 ที่สูงขึ้น

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1 / 4

Antigen expression

HLA A2, B8, B17, □□□□□□□□□□□ A, Rh+ □□□□□□□□□□□□□ CSAp (CSAp-) □□□□□□□□□□□□□□□□□□□□□□□□□□□□□ 3

Isoenzymes

G6PD, B, PGM1, 2, PGM3, 1, 6PGD, A, PEP-D, 1, ES-D, 1

Mutational profile

□□□□□□ SW-480 □□□□□□□□□□□□□□□□□□□ Kras □□□□□□□□□□□□□□□□□□□□□□□□□□ 12: GGT(Wt Gly) >GTT(Val) □□□□□□□□□□□□□□□□□□□□□ G->A □□□□□□□□ 273 □□□□□□□□ p53 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ Arg->His □□□□□□□□□□□□□□□□□□□□□□□□□□ C->T □□□□□□□□ 309 □□□ Pro->Ser

Viruses

□□□

Virus susceptibility

□□ (HIV, LAV)

Products

□□□ (CEA) 0.7 □□□□□□□□□□□□/106 □□□□□□□/10 □□□□, □□□□□□□□□, TGF-β. □□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ GM-CSF □□□□.

HANDLING AND CULTURE

Culture medium

Ham's F12, w: 1.0 mM □□□□□□□□□□□□□□□□□□□□, w: 1.0 mM □□□□□□□□□□□□□□□□□□□, w: 1.1 g/L NaHCO3 (□□□□□□□□□□□□□□□□□□□□□ Cytion 820600a)

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

Supplements

□□□ FBS 10%

Dissociation reagent	□□□□□□□□□□

Subculturing

□□ PBS □□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□ □□□□□□□□□□□□□□ T25 □□□□□□□□ PBS 3-5 □□. □□□□□□□□□□□□□□□□□□□ T75 □□□□□□□□ 5-10 □□. □□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□ Accutase □□□□□□□ 1-2 □□. □□□□□□□□□□□□□□□ T25 □□□ 2.5 □□. □□□□□□□□□□□□□□□ T75□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ 8-10 □□ □□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□ □ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ 10 □□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ 300 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ (300xg) □□□□□□□□□□□□ 3 □□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□ □□□□□□□□□□□□□□□□

Seeding density	1 x 10^4 □□□□□□/□□.^²
Fluid renewal	1 □□□ 2 □□□□□□□□□□□□□□□□□□□□□□□□□□
Post-thaw recovery	□□ □□ □□□□□□□□□□□□□□□□□ 5 x 10⁴ □□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□ □□□□□□□□□□□□□□ 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

[illegible] PCR [illegible]
[illegible] [illegible] [illegible] [illegible]

Freeze medium	[illegible] [illegible] [illegible] ([illegible] FBS) + 10% DMSO [illegible] [illegible] CM-1 ([illegible] [illegible] Cytion 800100) [illegible]

Storage conditions

[illegible] [illegible] −150 [illegible] −196 °C [illegible] −80 °C [illegible]

Shipping conditions

[illegible] [illegible] [illegible] −78 °C [illegible] [illegible] [illegible]

DONOR

Donor age	50 [illegible]
Ethnicity	[illegible]

LEGAL AND SAFETY

Safety precautions

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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Warranty

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Material Transfer Agreement required	Yes