

SW480-Luc | 305698

SW480-Luc

Description	SW480-Luc is a luciferase reporter construct that expresses luciferase under the control of the Wnt/ β -catenin promoter. It is derived from the SW480 cell line, which is a human colorectal adenocarcinoma cell line. The construct contains the Wnt/ β -catenin promoter, the luciferase gene, and a polyA signal. It is used for studying Wnt signaling in various cell lines and tissues. SW480-Luc is a stable cell line that expresses luciferase constitutively. It is used for studying Wnt signaling in various cell lines and tissues. SW480-Luc is a stable cell line that expresses luciferase constitutively. It is used for studying Wnt signaling in various cell lines and tissues.
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Organism	Human
Tissue	Colorectal adenocarcinoma
Disease	Colorectal adenocarcinoma

SW480-Luc

Age	51 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

SW480-Luc

Citation	SW480-Luc (Cytion 305698)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_C8Y1
GMO Status	GMO-S1: SW480-Luc (Cytion 305698) is a genetically modified organism (GMO) that expresses luciferase under the control of the Wnt/ β -catenin promoter. It is used for studying Wnt signaling in various cell lines and tissues.

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Culture Medium	Ham's F12, w: 1.0 mM β-mercaptoethanol, w: 1.0 mM transferrin, w: 1.1 g/L NaHCO ₃ (Gibco Cytion 820600a)
Supplements	Insulin Transferrin 10% FBS
Dissociation Reagent	Trypsin
Subculturing	Cells are harvested from flasks by adding 1 mL α-PBS and 0.5 mL Trypsin EDTA T25, incubate at 37°C for 3–5 min. Add 1 mL α-PBS, harvest cells by centrifuging at 300g for 5 min, wash cells with PBS, resuspend cells in medium.
Split ratio	1 : 3
Seeding density	1–3 × 10 ⁴ /cm ²

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Fluid renewal 2 x 3 times weekly

Freeze medium Freezing medium, 10% DMSO + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells in a water bath at 37°C, transfer to a 15 mL tube and add 10 mL of fresh medium.
2. Seed cells into a 24-well plate (100,000 cells per well) and incubate at 37°C.
3. After 24 hours, replace the medium with fresh medium.
4. After 48 hours, replace the medium with fresh medium.
5. After 72 hours, replace the medium with fresh medium.
6. After 96 hours, replace the medium with fresh medium.
7. After 120 hours, replace the medium with fresh medium.

Incubation Atmosphere 37°C, 5% CO₂

Shipping Conditions

Shipped at -78°C

Storage Conditions

Store at -150°C for 196 days

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