

KYSE180 | 305450

General information

Description	KYSE180 is a human esophageal squamous cell carcinoma (ESCC) cell line, established from a 53-year-old male patient. It is a highly proliferative cell line that grows in monolayers and is characterized by its sensitivity to cisplatin and paclitaxel. KYSE180 cells are derived from a primary tumor and have been extensively characterized for their genetic and molecular profile. They are commonly used in research to study the biology of ESCC and to evaluate the efficacy of novel therapeutic strategies. KYSE180 cells are also used in drug screening and toxicity testing. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. KYSE180 cells are highly sensitive to cisplatin and paclitaxel, which makes them a valuable model for studying the mechanisms of action of these drugs and for evaluating the efficacy of novel therapeutic strategies. The cell line is also used in research to study the biology of ESCC and to evaluate the efficacy of novel therapeutic strategies. KYSE180 cells are highly sensitive to cisplatin and paclitaxel, which makes them a valuable model for studying the mechanisms of action of these drugs and for evaluating the efficacy of novel therapeutic strategies.
Organism	Human
Tissue	Esophagus
Disease	Esophageal squamous cell carcinoma
Synonyms	KYSE 180, KYSE-180, Kyse180, KY180

Cell characteristics

Age	53 years
Gender	Male
Ethnicity	Chinese
Morphology	Epithelial cells
Growth properties	Adherent, high growth rate

Identification and documentation

Citation	KYSE180 (Cytion 305450)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1349

Additional information

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MSI-status	微卫星稳定 (MSS)
Mutational profile	TP53, p.Ile195Thr (c.584T>C),
Culture Medium	RPMI 1640, w: 2.0 mM , w: 2.0 g/L NaHCO ₃ (Cytion 820700a)
Supplements	10% FBS
Dissociation Reagent	
Subculturing	-PBS 3-5 min PBS, 3 min ,
Seeding density	2–4*10^4/cm²
Fluid renewal	
Freeze medium	, + 10% DMSO (FBS) + 10% DMSO

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**Thawing and
Culturing Cells**

1. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C孵育箱中培养。
2. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C液氮中冷冻保存。
3. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C孵育箱中培养。
4. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于70%相对湿度中培养。
5. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于15" x 8" x 8"的培养瓶中培养。
6. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于300 x g离心3分钟，然后将培养瓶置于-150°C液氮中冷冻保存。
7. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于10" x 10" x 10"的培养瓶中培养。
8. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C液氮中冷冻保存。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

**Shipping
Conditions**

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-78°C液氮中冷冻保存。

**Storage
Conditions**

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C液氮中冷冻保存。

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Sterility

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于-150°C液氮中冷冻保存。