

KYSE520 | 305449

Description KYSE520 is a human esophageal squamous cell carcinoma (ESCC) cell line. It was established from a 58-year-old male patient with esophageal squamous cell carcinoma. The cell line is characterized by its high tumorigenicity and ability to form xenografts in immunodeficient mice. KYSE520 cells are highly sensitive to the JAK3 inhibitor, JAM3, which significantly inhibits cell growth and induces apoptosis. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin.

Organism Human

Tissue Esophagus

Disease Esophageal squamous cell carcinoma

Synonyms KYSE 520, KYSE-520, KYSE520, KYSE0520, KYSE0520

Age 58 years

Gender Male

Ethnicity Chinese

Morphology Epithelial

Growth properties Adherent, suspension

Citation KYSE520 (ATCC CCL-1355 | 305449)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_1355

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Oncogenes TP53 MYC

Mutational profile TP53 c.376-2A>T

Culture Medium RPMI 1640 10% FBS

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing 1:2 to 1:10

Seeding density $0.6 - 1.2 \times 10^4$ cells/cm²

Fluid renewal 2x per week

Freeze medium RPMI 1640 + 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. [Redacted]
2. [Redacted]
3. [Redacted]
4. [Redacted]
5. [Redacted]
6. [Redacted]
7. [Redacted]
8. [Redacted]

Incubation Atmosphere 37 [Redacted]

Flask Coating [Redacted]

Freezing Procedure [Redacted]

Shipping Conditions [Redacted]

Storage Conditions [Redacted]

/ / HLA

Sterility [Redacted]