

Product sheet

KYSE-410 | 305122

General Information

Description	KYSE-410 is a cell line derived from a human esophageal squamous cell carcinoma (ESCC) cell line, established from a 51-year-old male patient. The cell line is characterized by a karyotype of 46,XY,t(11;17)(p11;p11), indicating a reciprocal translocation between chromosomes 11 and 17. This translocation results in the fusion of the ESR1 gene on chromosome 17 and the ERBB2 gene on chromosome 11, leading to the overexpression of the ERBB2 protein. KYSE-410 cells are highly tumorigenic and have been used in various studies to investigate the role of ERBB2 in esophageal cancer. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. KYSE-410 cells are highly tumorigenic and have been used in various studies to investigate the role of ERBB2 in esophageal cancer. 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 410, KYSE410, Kyse410, KYSE0410

Cell Line Characteristics

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

References and Accession

Citation	KYSE-410 (ATCC CCL-222) Cytion 305122
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1352

Additional Information

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Characteristics

Culture Medium RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent

Doubling time 32-45 days

Subculturing Cells are cultured in RPMI 1640 medium supplemented with 10% FBS. For subculturing, cells are harvested by trypsinization and washed with PBS. Cells are then resuspended in fresh medium and seeded into new flasks.

Fluid renewal 2-3 times per week

Freeze medium RPMI 1640 medium supplemented with 10% FBS and 10% DMSO

Thawing and Culturing Cells

1. Thaw the cells rapidly in a 37°C water bath.
2. Centrifuge the cells at 300 x g for 3 minutes.
3. Wash the cells with PBS.
4. Resuspend the cells in fresh medium.
5. Seed the cells into a new flask.
6. Incubate the cells at 37°C in 5% CO₂.
7. Monitor cell growth and confluency.
8. Perform subculturing when cells reach 70-80% confluency.

Incubation Atmosphere 37°C, 5% CO₂

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Flask Coating

Freezing Procedure -78°C

Shipping Conditions -78°C

Storage Conditions -150 °C 196

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Sterility