

Wilms2 | 300413

General information

Description	Wilms2 is a human kidney cancer cell line derived from a Wilms tumor. It is characterized by the presence of WT1. Wilms2 cells are highly tumorigenic and can form teratomas in immunodeficient mice. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS). Wilms2 cells are highly tumorigenic and can form teratomas in immunodeficient mice. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS). Wilms2 cells are highly tumorigenic and can form teratomas in immunodeficient mice. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS).
Organism	Human
Tissue	Kidney
Disease	Wilms tumor
Applications	Cell culture, drug screening, tumor models

Characteristics

Age	10-15 years
Gender	Male
Ethnicity	White
Morphology	Epithelial cells
Cell type	Epithelial cells
Growth properties	Highly tumorigenic

References and safety

Citation	Wilms2 (Cytion 300413)
Biosafety level	1
NCBI_TaxID	9606

Wilms2 | 300413

CellosaurusAccession CVCL_A5SE

NCBI Gene | 300413

Mutational profile WT1: c.149 C>A, p.R326x, LOH: 11p11-11pter, CTNNB1: del TCT>TAT, p.

NCBI Gene

Culture Medium MSCGM (Lonza)

Dissociation Reagent

Subculturing Cells are grown in 100% MSCGM medium. Cells are harvested by trypsinization with Trypsin-EDTA (3 min, 37°C), followed by centrifugation at 300 x g for 5 min. Cells are resuspended in 100% MSCGM medium and seeded into new flasks.

Freeze medium Cells are frozen in MSCGM medium supplemented with 10% DMSO (final concentration 10% FBS) + 10% DMSO. Cells are frozen in liquid nitrogen and stored at -80°C.

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C. Transfer cells to a centrifuge tube and centrifuge at 300 x g for 5 min.
2. Remove supernatant and resuspend cells in 100% MSCGM medium. Seed cells into a 25 cm² flask.
3. Incubate cells at 37°C in 5% CO₂ atmosphere. Change medium after 24 hours.
4. When cells reach 70% confluency, passage cells into a new flask.
5. Seed cells at a density of 1.5 x 10⁵ cells per flask.
6. Harvest cells by trypsinization with Trypsin-EDTA (3 min, 37°C). Centrifuge at 300 x g for 5 min.
7. Resuspend cells in 100% MSCGM medium. Seed cells into a new flask.
8. Incubate cells at 37°C in 5% CO₂ atmosphere. Change medium after 24 hours.

Incubation Atmosphere 37°C, 5% CO₂, humidified

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Flask Coating

Flask Coating

Freezing Procedure

Freezing Procedure: The cells are frozen in a freezing medium and stored at -78°C.

Shipping Conditions

Shipping Conditions: The cells are shipped in a cooling box with dry ice at -78°C.

Storage Conditions

Storage Conditions: The cells are stored at -150 to -196°C in a liquid nitrogen storage container.

Genotype

Sterility

Sterility: The cells are tested for sterility using PCR and microscopy. The results show that the cells are sterile.

HLA

A*: '01:01:01, '02:01:01
B*: 15:01:01, 57:01:01
C*: '03:03:01, '07:01:01
DRB1*: 04:01:01, 07:01:01
DQA1*: '02:01:01, '03:01:01
DQB1*: 03:02:01, 03:03:02
DPB1*: '04:01:01G, '04:02:01G
E: '01:01:01, '01:03:02