

PtK2 | 608316

General information

Description	PtK2 is a kidney cell line derived from Potorous tridactylis, a marsupial species. It is a continuous cell line that can be grown in the presence of insulin, transferrin, and selenium (ITS) supplements. PtK2 cells are characterized by their high resistance to trypsin digestion and their ability to form colonies in soft agar. They are commonly used in studies related to cell growth, differentiation, and signaling pathways.
Organism	Potorous tridactylis
Tissue	Kidney
Synonyms	Pt K2 (NBL-5), NBL-5, Pt-K2, PTK-2, Ptk-2, PTK 2, PtK 2, PTK2, Pt K2, Ptk2, Potorous tridactylus Kidney 2

Cell characteristics

Age	Passage 1-5
Gender	Male
Morphology	Epithelial cells
Growth properties	Adherent cells, growing in the presence of ITS supplements

Cell authentication and quality control

Citation	PtK2 (NBL-5) Cytion 608316
Biosafety level	1
NCBI_TaxID	9310
CellosaurusAccession	CVCL_0514

Cell storage and handling

Virus susceptibility	Resistant to A9, B5, and 293T viruses, but susceptible to Adenovirus (AdV)
Virus resistance	Resistant to A9, B5, and 293T viruses

XXXX PtK2 | 608316

Reverse transcriptase	SuperScript [®] II
Products	SuperScript [®] II
Cell line	MDA-MB-231
Culture Medium	RPMI 1640, w: 2.0 mM L-glutamine, w: 2.0 g/L NaHCO ₃ (Gibco Cytion 820700a)
Supplements	10% FBS
Dissociation Reagent	Trypsin
Subculturing	Cells are grown in 25 cm ² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach confluence, the medium is removed and the cells are washed with PBS. The cells are then trypsinized and resuspended in PBS. The cells are then seeded into new flasks at a density of 1 x 10 ⁴ cells per flask.
Split ratio	1:2 or 1:3
Seeding density	1 x 10 ⁴ cells/flask
Post-Thaw Recovery	Cells are grown in 25 cm ² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach confluence, the medium is removed and the cells are washed with PBS. The cells are then trypsinized and resuspended in PBS. The cells are then seeded into new flasks at a density of 1 x 10 ⁴ cells per flask.
Freeze medium	RPMI 1640 medium supplemented with 10% FBS + 10% DMSO

Amelogenin STR | 608316

**Thawing and
Culturing Cells**

1. Amelogenin STR is a DNA marker used for sex determination and identification in forensic and clinical samples. It is a Y-chromosome specific marker and is present only in male samples.
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**Incubation
Atmosphere**

37°C, 5% CO₂, humidified air

Flask Coating

Not required

**Freezing
Procedure**

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**Shipping
Conditions**

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**Storage
Conditions**

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Sterility

Amelogenin STR is a DNA marker used for sex determination and identification in forensic and clinical samples. It is a Y-chromosome specific marker and is present only in male samples.

Amelogenin STR

Amelogenin: X,X