

Human Primary Renal Fibroblasts

A primary renal cell isolate with application in cell-based screening and life science research

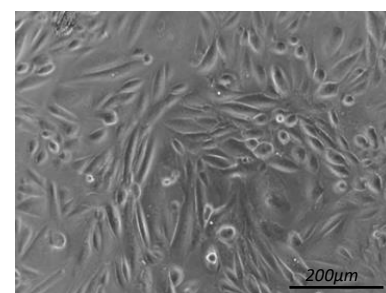
The primary cell isolate was prepared from human tissue obtained with full ethical permission. Cortex tissue was mechanically dissociated into small explants which were cultured under conditions optimised for primary kidney fibroblast cells. A fibroblast population was isolated using FSP-1 immuno-magnetic selection. The selected population was expanded, banked, and cryopreserved under liquid nitrogen. The cell population was analysed by fluorescence-activated flow cytometry.

DONOR TISSUE FEATURES

- Male donor, 53 years, Caucasian, additional donor history available
- Healthy kidney cortex, no evidence of abnormal pathology

CELL CHARACTERISTICS

Batch number:	16-2106
Vial content:	0.5x10 ⁶ cells
Appearance:	Sheet of elongated cells
Seeding density:	4,000-5,000 cells/cm ²
Culture medium:	AvantiCell medium (KF-HNM-01) recommended
Recovery from frozen:	96%
Population doubling:	1-2 days
Mycoplasma test:	Negative (by real time PCR)
Virus tests:	Negative for HBV, HCV, HIV I/II, CMV, positive for EBV IgG (by serology screen)
Other tests:	Negative for yeast, bacteria, fungus



Example cell morphology. Cells in culture were fixed in situ and photographed using a phase contrast microscope. (Bar 200µm)

FLOW CYTOMETRY CELL ANALYSIS

Cell Marker	Target Description	Population Positive*
FSP	Fibroblast surface marker	54.2%
α-smooth muscle actin (α-SMA)	Myofibroblast marker	73.9%

*Percentage of cells with fluorescence greater than the isotype control background

USES AND RESTRICTIONS

- Store at -150°C. Once thawed do not re-freeze
- For research use ONLY — not suitable for *in vitro* diagnostic use or human or animal treatment
- Potential biohazard — handle with care

Leaders in Cell Culture