

Human Primary Kidney Fibroblast Cells

A primary renal cell isolate adapted for growth in human culture medium with application in cell-based screening and life science research

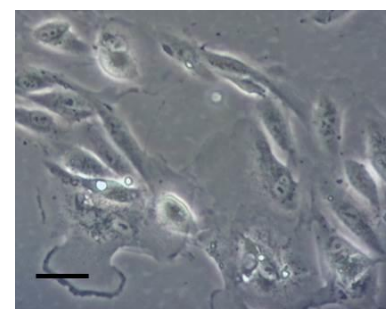
The primary cell isolate was prepared from human tissue obtained with full ethical permission. Tissue was mechanically dissociated into small explants which were cultured under conditions optimized for primary kidney fibroblast cells. Fibroblasts were recovered in cells out-growing from the explants.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

DONOR TISSUE FEATURES

- Female donor, Caucasian, 63 years
- Normal kidney cortex
- Additional donor history available on request

CELL CHARACTERISTICS

Batch number:	12-1109BFH
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-02) recommended
Recovery from frozen:	89%
Population doubling:	10 days
Mycoplasma test:	Negative (by luminescence-based mycoplasma assay)
Virus tests:	Negative for HIV1, HIV2, HBV, HCV (by real time PCR)
Other tests:	Negative for yeast, bacteria, fungus



Cell morphology. Cells in culture were photographed using a phase contrast microscope. (Bar 50µm)

FLOW CYTOMETRY CELL ANALYSIS

Cell Marker	Target Description	Population Positive*
FSP	Fibroblast surface marker	76.22%
α-smooth muscle actin (α-SMA)	Myofibroblast marker	93.14%

*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