

Immortalized Human Pancreatic CAF-Stellates

Catalog Number: NEOCAF64

Cell Number: 1,000,000 cells/vial

Passage Number: P1

Species: Human

Cell Type: Immortalized Human Pancreatic Cancer-Associated Fibroblast Stellate Cells

Storage Conditions: Liquid Nitrogen Vapor Phase

Intended Use: For Research Use Only (RUO). Not for human or clinical applications.

Product Description

Immortalized Human Pancreatic CAF-Stellates are derived from human pancreatic tumor-associated stromal tissue and immortalized to provide a stable, highly reproducible in vitro model for pancreatic tumor microenvironment studies. These cells exhibit characteristic activated fibroblast and stellate phenotypes commonly associated with pancreatic ductal adenocarcinoma (PDAC), including extracellular matrix remodeling, cytokine secretion, and tumor-supportive signaling.

These cells are ideal for:

- Tumor microenvironment research
- Pancreatic cancer progression studies
- Fibrosis and stromal interaction assays
- Drug screening and therapeutic development
- Immuno-oncology applications
- Extracellular matrix (ECM) remodeling studies

Morphology

- Spindle-shaped fibroblast-like morphology
- Adherent growth properties
- Activated stellate cell phenotype



Recommended Culture Conditions

Recommended Medium: CAF/Stellate Cell Growth Medium

Culture Surface: Tissue culture-treated flasks or plates

Incubation Conditions:

- 37°C
 - 5% CO₂
 - Humidified atmosphere
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Expression Markers

Positive Markers

- α -SMA (Alpha Smooth Muscle Actin / ACTA2)
- FAP (Fibroblast Activation Protein)
- Vimentin
- PDGFR- β
- FSP-1 (S100A4)
- Collagen I
- Fibronectin
- Desmin
- GFAP
- Tenascin-C
- CXCL12
- TGF- β
- IL-6
- Periostin
- Podoplanin (PDPN)

Negative Markers

- CD31 (Endothelial Marker)
 - CD45 (Hematopoietic Marker)
 - Cytokeratin 18
 - EpCAM
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Quality Control

- Sterility tested
- Mycoplasma negative
- Viability $\geq 85\%$ post-thaw
- Morphology verified
- Marker expression validated by immunocytochemistry and/or flow cytometry

Cryopreservation

Cells are cryopreserved in a validated freezing medium and supplied frozen in liquid nitrogen vapor phase.

Safety Statement

Handle all human-derived materials using appropriate biosafety procedures and universal precautions.

Disclaimer

This product is intended for research use only and is not intended for diagnostic, therapeutic, or clinical use.