



Lung Adenocarcinoma Cancer-Associated Fibroblasts (CAFs)

Data sheet

Product Information

Specification	Details
Product Name	Lung Adenocarcinoma Cancer-Associated Fibroblasts (CAFs)
Catalog Number	NEOCAF77
Cell Type	Primary Human Cancer-Associated Fibroblasts
Tissue Origin	Human Lung Adenocarcinoma Tumor
Cell Number	1,000,000 cells/vial
Passage Number	P1
Species	Human
Morphology	Spindle-shaped fibroblast-like adherent cells
Growth Properties	Adherent
Storage Condition	Liquid Nitrogen Vapor Phase
Shipping Condition	Dry Ice
Biosafety Level	BSL-2
Intended Use	Research Use Only (RUO)

Product Description

Lung Adenocarcinoma Cancer-Associated Fibroblasts (CAFs) are isolated from human lung adenocarcinoma tumor tissue and expanded under optimized culture conditions. These fibroblasts represent a critical component of the tumor microenvironment and are widely used for studies involving tumor progression, extracellular matrix remodeling, immunomodulation, angiogenesis, metastasis, and drug resistance.

These cells exhibit characteristic CAF morphology and express multiple fibroblast and tumor-associated stromal markers relevant to lung cancer research.

Recommended Culture Conditions

Parameter	Recommendation
Culture Medium	Fibroblast Growth Medium

www.neobiopharma.com

info@neobiopharma.com

Parameter	Recommendation
Culture Surface	Tissue Culture-Treated Flask
Incubation Conditions	37°C, 5% CO ₂
Medium Renewal	Every 2–3 days
Subculture Ratio	1:3 to 1:5

Expression Markers

Positive Markers

Marker	Expression
α -SMA (ACTA2)	Positive
FAP	Positive
Vimentin	Positive
Fibroblast-Specific Protein-1 (FSP-1/S100A4)	Positive
PDGFR- β	Positive
TE-7	Positive
Fibronectin	Positive
Collagen I	Positive
Collagen III	Positive
Tenascin-C	Positive
CXCL12 (SDF-1)	Positive
TGF- β	Positive
VEGF	Positive
CD90 (Thy-1)	Positive

Negative Markers

Marker	Expression
CD31	Negative
CD34	Negative
CD45	Negative
EpCAM	Negative
Cytokeratin 18	Negative



Marker Expression
Cytokeratin 19 Negative

Quality Control Testing

Test	Result
Sterility Testing	Passed
Mycoplasma Testing	Negative
Viability	≥ 85% Post-Thaw
Morphology Verification	Passed
Marker Validation	Confirmed by Immunostaining/Flow Cytometry

Applications

- Tumor Microenvironment Studies
 - CAF Biology Research
 - Cancer Drug Screening
 - Fibrosis and ECM Remodeling Studies
 - Cytokine Signaling Analysis
 - Angiogenesis Research
 - Co-Culture Systems
 - Immuno-Oncology Research
 - Lung Cancer Progression Studies
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Cryopreservation

Cells are cryopreserved in a proprietary freezing medium containing DMSO and serum under controlled-rate freezing conditions.

Safety Statement

This product is intended for laboratory research use only and is not intended for human or animal therapeutic applications.



Storage

Store immediately in liquid nitrogen vapor phase upon arrival. Avoid repeated freeze-thaw cycles.