

# Human Pulmonary Alveolar Epithelial Cells

Cat. No. ARP0136,  $1 \times 10^6$  cells/vial

## Description

Research on the Human Pulmonary Alveolar Epithelial Cells is essential to the study of acute respiratory distress syndrome (ARDS), pulmonary fibrosis, COVID-19-associated alveolar injury, and emphysema. The lungs are the central organs of the human respiratory system, responsible for gas exchange, delivering oxygen to the blood while removing waste (carbon dioxide). They are a pair of spongy, pinkish-gray organs located in the chest, with their surfaces covered by the pleura. The lungs are connected to the trachea through the bronchi, and their interiors are filled with alveoli, which provide a large surface area for efficient gas exchange during respiration. The Human Pulmonary Alveolar Epithelial Cells are to be used with Human Pulmonary Alveolar Epithelial Cell Medium (Cat. No. ACM0136). This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

## Specification

Cell Type: Epithelial Cells

Tissue/Organ: Lung

Disease: N/A

Species: Homo sapiens (Human)

Genetic Background: N/A

Markers: Cytokeratin 18, Cytokeratin 19

Symbols: HPAEC

## Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN<sub>2</sub>) cryopreservation.

## Intended Use

This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.



## Culturing Guidance

Morphology: Epithelial-like

Growth Mode: N/A

Temperature: 37°C

Atmosphere: 5% CO<sub>2</sub>

## Unpacking and Storage Instructions

1. Visually inspect all packaging components for integrity and verify adequate dry ice.  
If any damage is observed, notify Ascent Technical Support immediately.
2. Prioritize transfer to liquid nitrogen vapor phase storage system (-130°C or below).  
Secondary option: -80°C mechanical freezer (short-term storage only).  
Always maintain temperature strictly below -65°C.

## Disclaimer

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