

# Human Corneal Epithelial Cells

Cat. No. ARP0113,  $5 \times 10^5$  cells/vial

## Description

Research on the Human Corneal Epithelial Cells is essential to the study of dry eye disease, corneal abrasions/ulcers, infectious keratitis (bacterial/viral/fungal), limbal stem cell deficiency, and neurotrophic keratopathy. The eye is a complex sensory organ that allows an organism to perceive visual information. It is composed of the eyeball and its accessory structures. The eyeball is the main visual organ, responsible for image formation and phototransduction. The accessory parts include the eyelids, conjunctiva, lacrimal apparatus, extraocular muscles, and the connective tissue within the orbit, which together protect and enable movement of the eyeball. The Human Corneal Epithelial Cells are to be used with Human Corneal Epithelial Cell Medium (Cat. No. ACM0113). 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: Eye (cornea)

Disease: N/A

Species: Homo sapiens (Human)

Genetic Background: N/A

Markers: Cytokeratin 18, Cytokeratin 19

Symbols: HCEC

## Shipping & Storage

Shipping condition: Frozen on dry ice.

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

## Intended Use

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## 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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