

Rat Ciliary Muscle Cells

Cat. No. ARP0413, 5×10^5 cells/vial

Description

Research on the Rat Ciliary Muscle Cells is essential to the study of presbyopia, accommodative dysfunction, cyclitis, and pharmacological paralysis studies. The ciliary muscle is a ring of smooth muscle in the eye and facilitates eye accommodation by controlling the shape of the lens. Its contraction and relaxation alter the shape of the lens, adjusting the refractive power to enable clear vision of objects at varying distances. The function of the ciliary muscle directly affects visual clarity and is closely related to common issues such as myopia and visual fatigue. The Rat Ciliary Muscle Cells are to be used with Rat Ciliary Muscle Cell Medium (Cat. No. ACM0413). This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

Specification

Cell Type: Muscle Cells

Tissue/Organ: Eye (ciliary muscle)

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

Markers: α -Smooth Muscle Actin (α -SMA)

Symbols: RCMC

Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN₂) cryopreservation.

Intended Use

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Culturing Guidance

Morphology: Elongated fusiform

Growth Mode: Adherent

Temperature: 37°C

Atmosphere: 5% CO₂

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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