

# Rat Preadipocytes

Cat. No. ARP0323,  $5 \times 10^5$  cells/vial

## Description

Research on the Rat Preadipocytes is essential to the study of metabolic diseases including type 2 diabetes, obesity, and metabolic syndrome. Adipose tissue is a form of connective tissue found throughout the body. It is located under the skin (as subcutaneous fat), surrounding internal organs (as visceral fat), and inside bone cavities (as bone marrow adipose tissue). Although it has long been recognized for its role in storing energy, insulating the body, and protecting internal organs, recent research has identified adipose tissue as an active player in the endocrine system. Adipocytes are used in research on obesity and metabolic disorders, endocrinology, inflammation, and immune response. The Rat Preadipocytes are to be used with Rat PreAdipocyte Medium (Cat. No. ACM0323). This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

## Specification

Cell Type: Adipocytes

Tissue/Organ: Adipose

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

Markers: Preadipocyte Factor-1 (Pref-1)

Symbols: RP

## 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: Fusiform, Irregular

Growth Mode: Adherent

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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