

# Rat Esophageal Smooth Muscle Cells

Cat. No. ARP0219,  $5 \times 10^5$  cells/vial

## Description

Research on the Rat Esophageal Smooth Muscle Cells is essential to the study of achalasia, diffuse esophageal spasm, gastroesophageal reflux disease (GERD), and eosinophilic esophagitis-related motility disorders. The esophagus is a muscular tube that connects the throat (pharynx) to the stomach. It uses rhythmic muscular contractions called peristalsis to transport food from the mouth to the stomach. It is divided into cervical, thoracic, and abdominal sections. The Rat Esophageal Smooth Muscle Cells are to be used with Rat Esophageal Smooth Muscle Cell Medium (Cat. No. ACM0219). 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: Esophagus

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

Markers:  $\alpha$ -Smooth Muscle Actin ( $\alpha$ -SMA)

Symbols: RESMC

## 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: Elongated 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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