

# Rat Bladder Smooth Muscle Cells

Cat. No. ARP0256,  $5 \times 10^5$  cells/vial

## Description

Research on the Rat Bladder Smooth Muscle Cells is essential to the study of bladder dysfunction, overactive bladder syndrome, detrusor underactivity, neurogenic bladder dysfunction, bladder outlet obstruction, and interstitial cystitis-related hypercontractility. The bladder is a sac-like organ located in the lesser pelvis, composed of a smooth muscle layer, a mucosal layer, and an outer membrane. It primarily acts as a reservoir for urine, temporarily storing urine produced by the kidneys and expelling it from the body through regular contractions. The health of the bladder is closely linked to the proper functioning of the urinary system. The Rat Bladder Smooth Muscle Cells are to be used with Rat Bladder Smooth Muscle Cell Medium (Cat. No. ACM0256). 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: Urinary bladder

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

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

Symbols: RBSMC

## 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: 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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