

# Mouse Aortic Arch Smooth Muscle Cells

Cat. No. ARP0450,  $5 \times 10^5$  cells/vial

## Description

Research on the Mouse Aortic Arch Smooth Muscle Cells is essential to the study of hypertension-induced vascular remodeling, aortic arch calcification, baroreceptor dysfunction, and atherosclerosis susceptibility studies. The aorta is the largest artery and the main vessel that carries oxygenated blood from the left ventricle into the systemic circulation. All arteries in the systemic circulation arise from the aorta either directly (like the coronary or brachiocephalic arteries) or through its branches (e.g., femoral artery via the iliac arteries), distributing oxygenated blood to peripheral tissues and organs. Cells isolated from the aorta can be used in research on systemic circulation and vascular diseases, such as aortic aneurysm. The Mouse Aortic Arch Smooth Muscle Cells are to be used with Mouse Aortic Arch Smooth Muscle Cell Medium (Cat. No. ACM0450). 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: Aorta

Disease: Normal

Species: *Mus musculus* (Mouse)

Genetic Background: N/A

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

Symbols: MAASMC

## 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

Ascent Research endeavors to provide accurate and up-to-date product information. However, no warranties or representations are made regarding its completeness or reliability. References to scientific literature and patents are for informational purposes only, and the customer assumes sole responsibility for verifying their accuracy.

By accepting this product, the customer acknowledges and agrees to assume all risks associated with its receipt, handling, storage, disposal, and use, including compliance with all applicable safety and environmental regulations and precautions. Relevant laws, regulations, and ethical guidelines must be followed in conducting any research, modifications, or derivatives derived from this product.

This product is provided "AS IS", and except as expressly stated herein, Ascent Research disclaims all other warranties, express or implied. Under no circumstances shall Ascent Research, its affiliates, or representatives be liable for indirect, incidental, consequential, or punitive damages arising from the use of this material. While Ascent Research employs rigorous quality control measures, we shall not be held responsible for damages resulting from misidentification or misinterpretation of the provided materials.

# Copyrights

© 2025 Ascent Research. All rights reserved.

This document was last updated on June 20, 2025.

