

Cynomolgus Monkey Aortic Endothelial Cells

Cat. No. ARP1214, 5×10^5 cells/vial

Description

Primary cynomolgus monkey aortic endothelial cells are isolated from the aorta of cynomolgus monkey (*Macaca fascicularis*, also known as crab-eating Macaque) and supplied as early-passage cryopreserved cells to help retain physiologically relevant properties in culture. These cells provide a non-human primate vascular model for studies requiring endothelial biology that is closely aligned with translational cardiovascular research.

Within the cardiovascular system, the aorta carries oxygenated blood from the heart to the systemic circulation. Its endothelial lining is essential for maintaining vascular barrier integrity while coordinating hemostatic balance, inflammatory responses, and vessel tone under dynamic blood flow conditions.

Aortic endothelial cells form the interface between circulating blood and the vessel wall. In this setting, they regulate permeability, produce vasoactive mediators, and participate in leukocyte adhesion and inflammatory signaling. They also influence coagulation pathways and communicate with adjacent vascular smooth muscle cells to support vessel homeostasis.

These cells are well suited for vascular biology and endothelial function studies, atherosclerosis and cardiovascular disease research, leukocyte-endothelium interaction assays, and screening compounds for vascular toxicity or endothelial responses. Please contact Ascent Research for additional product or donor information.

Specification

Cell Type: Endothelial cell

Tissue/Organ: Aorta

Disease: N/A

Species: *Macaca fascicularis* (Cynomolgus Monkey)

Genetic Background: N/A

Markers: CD31, VE-cadherin

Symbols: N/A



Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN₂) 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: Epithelial-like

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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This document was last updated on April 20, 2026.

