

Rabbit Femoral Head Microvascular Endothelial Cells

Cat. No. ARP0817, 5×10^5 cells/vial

Description

Research on the Rabbit Femoral Head Microvascular Endothelial Cells is essential to the study of osteonecrosis of the femoral head, osteoporosis, and post-traumatic avascular necrosis. The femoral head artery is a network of arteries that supply oxygen and nutrients to the head of the femur, the ball-shaped structure forming part of the hip joint. The most critical artery in this network is the deep branch of the medial femoral circumflex artery, and branches of the lateral femoral circumflex artery also participate in this supply. These arteries form a vascular ring around the base of the femoral neck and develop fine branches into the femoral head. Together, they establish a network of extraosseous and intraosseous arterial supply, which is essential for maintaining the health of bone tissue. Importantly, the blood supply to the femoral head is largely composed of end arteries with minimal collateral circulation. This means that if the main vessels are damaged, such as in femoral neck fractures or hip dislocations, the ability to restore blood flow is poor. Disruption of this supply can lead to avascular necrosis of the femoral head, a condition marked by bone tissue death, pain, and limited joint mobility. The Rabbit Femoral Head Microvascular Endothelial Cells are to be used with Rabbit Femoral Head Microvascular Endothelial Cell Medium (Cat. No. ACM0817). This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

Specification

Cell Type: Microvascular Endothelial Cells

Tissue/Organ: Artery (femoral head artery)

Disease: N/A

Species: *Oryctolagus cuniculus* (Rabbit)

Genetic Background: N/A

Markers: von Willebrand Factor (vWF)

Symbols: RaFHMEC



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: Cobblestone-like, Irregular

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

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.

