

# Mouse Bone Marrow Endothelial Cells

Cat. No. ARP0585,  $5 \times 10^5$  cells/vial

## Description

Research on the Mouse Bone Marrow Endothelial Cells is essential to the study of myelofibrosis, hematopoietic stem cell niche disruption, bone marrow failure syndromes, radiation-induced vascular damage, and leukemia-associated angiogenesis. Bone marrow is a soft, spongy tissue found within the hollow spaces of bones (trabecular cavities of bones and the medullary cavities of long bones). It is composed of various types of cells and reticular connective tissue. Bone marrow is classified into red bone marrow and yellow bone marrow, and primarily functions in hematopoiesis, immune regulation, and nutrient storage. Red bone marrow is responsible for producing red blood cells, white blood cells, and platelets, while yellow bone marrow mainly consists of fat and can convert into red bone marrow under certain conditions to support hematopoiesis. The Mouse Bone Marrow Endothelial Cells are to be used with Mouse Bone Marrow Endothelial Cell Medium (Cat. No. ACM0585). This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

## Specification

Cell Type: Endothelial Cells  
Tissue/Organ: Bone (bone marrow)  
Disease: Normal  
Species: *Mus musculus* (Mouse)  
Genetic Background: N/A  
Markers: CD31  
Symbols: MBMEC

## 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: Polygonal, 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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