

Rat Bone Marrow Mast Cells

Cat. No. ARP0354, 5×10^5 cells/vial

Description

Research on the Rat Bone Marrow Mast Cells is essential to the study of systemic mastocytosis, anaphylaxis models, graft-versus-host disease (GVHD), and inflammatory bone marrow microenvironment studies. 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 Rat Bone Marrow Mast Cells are to be used with Rat Bone Marrow Mast Cell Medium (Cat. No. ACM0354). This product is intended for laboratory in vitro use only. It is not intended for diagnostic, therapeutic, or clinical applications.

Specification

Cell Type: N/A

Tissue/Organ: Bone (bone marrow)

Disease: Normal

Species: *Rattus norvegicus* (Rat)

Genetic Background: N/A

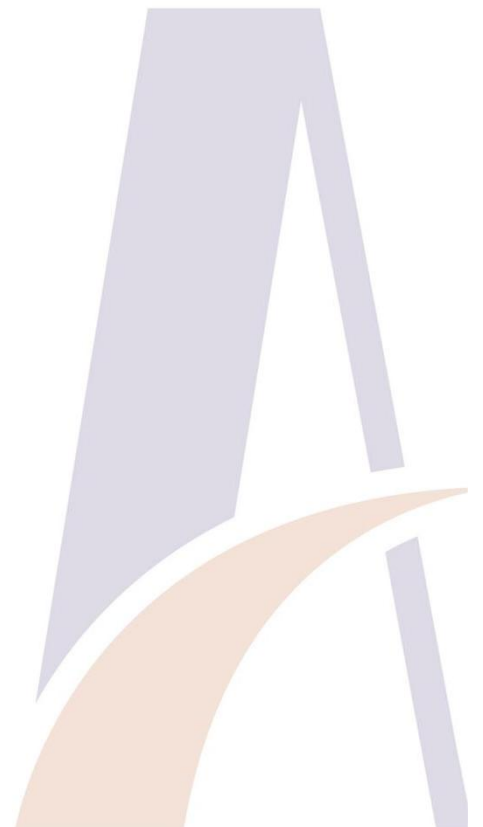
Markers: CD117

Symbols: RBMMC

Shipping & Storage

Shipping condition: Frozen on dry ice.

Storage condition: Liquid nitrogen (LN₂) cryopreservation.



Intended Use

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Culturing Guidance

Morphology: Round or ovoid

Growth Mode: Suspension

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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