

# Rat Osteoclasts

Cat. No. ARP0320,  $5 \times 10^5$  cells/vial

## Description

Research on the Rat Osteoclasts is essential to the study of Paget's disease of bone, osteopetrosis, rheumatoid arthritis bone erosion, and metastatic bone destruction. 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 Osteoclasts are to be used with Rat Osteoclast Medium (Cat. No. ACM0320). 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: N/A  
Symbols: RO

## 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: Round, 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.

