

Product Information

Human Peripheral Blood Pan Monocytes (Untouched)

Catalog Number	10HU-008N	Cell Number	1.0 x 10 ⁷ cells/vial 4.0 x 10 ⁷ cells/vial
Species	<i>Homo sapiens</i>	Storage Temperature	Liquid Nitrogen

Description

Monocytes are a type of white blood cells (leukocytes). Monocytes constitute 10~30% of peripheral blood mononuclear cells in the human body. They play multiple roles in immune function including replenishing resident macrophages under normal states. And in response to inflammation signals, monocytes can move quickly (approx. 8–12 hours) to sites of infection in the tissues and divide/differentiate into macrophages and dendritic cells to elicit an immune response^[1]. CD14 is an important surface marker for monocytes.

iXCells Biotechnologies offers Human Peripheral Blood Pan Monocytes (Untouched) isolated from normal human peripheral blood mononuclear cells (PBMCs) using negative immunomagnetic selection. > 85% of the cells are CD14+ as showed by flow cytometric analysis.

Product Details

Tissue	Normal human peripheral blood
Package Size	1.0x10 ⁷ cells/vial, 4.0x10 ⁷ cells/vial
Purity	>85%
Passage Number	P0
Shipped	Cryopreserved
Storage	Liquid nitrogen
Growth Properties	Suspension
Media	Blood Cell Culture Medium (Cat# MD-0007)

Protocols

Thawing of Frozen Cells

1. Upon receipt of the frozen Human Peripheral Blood Monocytes, it is recommended to thaw the cells and initiate the culture immediately in order to retain the highest cell viability.
2. To thaw the cells, put the vial in 37°C water bath with gentle agitation for 1-2 minutes. Keep the cap out of water to minimize the risk of contamination.
3. Pipette the cells into a 15 mL conical tube with 5 mL fresh Blood Cell Culture Medium (Cat# MD-0007).
4. Centrifuge at 400-450 g for 5 minutes under room temperature.
5. Remove the supernatant and cell is ready for downstream applications.

Safety Precaution: *it is highly recommended that protective gloves and clothing should be used when handling frozen vials.*

Reference

[1] Ziegler-Heitbrock, L (2007). "The CD14+ CD16+ Blood Monocytes: their Role in Infection and Inflammation, Review". *J Leukocyte Biology* **81** (3): 584–92.

Disclaimers

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