

## Product Information

### Mouse Peripheral Blood Mononuclear Cells (mPBMCs)

Catalog Number	10MU-031	Cell Number	5 million cells/vial
Species	<i>Mus Musculus</i>	Storage Temperature	Liquid Nitrogen

## Description

Peripheral Blood Mononuclear Cells (PBMCs) is any blood cell with a single nucleus <sup>[1]</sup>. These blood cells are a critical component in the immune system to fight pathogen. PBMCs consist of lymphocytes (T, B and NK cells), monocytes and dendritic cells <sup>[2]</sup>. PBMCs are widely used in research fields including immunology, infectious diseases and hematological malignancies etc.

**iXCells Biotechnologies** provides high quality Mouse Peripheral Blood Mononuclear Cells (mPBMCs), which are isolated from mouse peripheral blood and cryopreserved with 5 million cells in each vial.

## Product Details

<b>Tissue</b>	Mouse peripheral blood
<b>Package Size</b>	5 million cells/vial
<b>Shipped</b>	Cryopreserved
<b>Storage</b>	Liquid nitrogen
<b>Growth Properties</b>	Suspension
<b>Media</b>	Blood Cell Culture Medium (Cat # MD-0007)

# Protocols

## Thawing of Frozen Cells

1. Upon receipt of the frozen cells, 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 minute. Keep the cap out of water to minimize the risk of contamination.
3. Pipette the cells into a 15 mL conical tube with 5mL fresh **Blood Cell Culture Medium\*** (Cat # MD-0007).
4. Centrifuge at 2,000 rpm (~450 g) for 5 minutes under room temperature.
5. Remove the supernatant and cells are ready for use.

*\*Blood Cell Culture Medium (Cat #MD-0007) doesn't contain active ingredients to active T cells. It is recommended for immune cell recovery and can be used as basal medium for T cell activation.*

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

## References

[1] Delves, Peter, et al. Roitt's Essential Immunology, 11th Ed.

[2] Miyahira, Andrea (22 Nov 2012). "Types of immune cells present in human PBMC". *sanguinebio.com*. Retrieved 23 Sep 2014.

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