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Product Information

Human Peripheral Blood CD34+ Cells

Catalog Number	10HU-102	Cell Number	0.2 million cells/vial 0.5 million cells/vial
Species	*Homo sapiens*	Storage Temperature	Liquid Nitrogen

Description

CD34 is a glycosylated transmembrane protein and represents a well-known marker for primitive blood- and bone marrow-derived progenitor cells, especially for hematopoietic and endothelial stem cells. Although the biological functions of CD34 are largely unknown, recent data suggest that CD34 is involved in maintenance of the progenitor cells in a phenotypically undifferentiated state. The CD34+ Progenitor Cells contain two main cellular subpopulations, hematopoietic and endothelial progenitor cells. Therefore, CD34+ Progenitor Cells are suitable for a series of studies, e.g. directed differentiation into more committed types of blood cells and endothelial lineages.

iXCells Biotechnologies offers CD34+ Progenitor Cells from the peripheral blood of healthy donors. These cells are positively isolated using a direct immunomagnetic CD34 MicroBead labeling system. > 90% of the cells are CD34+ as showed by flow cytometric analysis of iXCells CD34+ Progenitor Cells.

Product Details

Tissue	Human peripheral blood
Package Size	0.2 million cells/vial; 0.5 million cells/vial
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 CD34+ 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 1-2 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.*

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans. While iXCells Biotechnologies uses reasonable efforts to include accurate and up-to-date information on this product sheet, we make no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. iXCells Biotechnologies does not warrant that such information has been confirmed to be accurate.

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