

## 14-3003: Human Bone Marrow CD34+ Stem/Progenitor Cells(Discontinued)

Reactivity : Human

## Description

Cell Source: Bone Marrow Cell Type: Stem/Progenitor Cells Donor Attributes: HIV-, HepB-, HepC-

CD34 is a glycosylated transmembrane protein and represents a well-established marker for human hematopoietic stem and progenitor cells in peripheral blood, bone marrow, cord blood and fetal liver. CD34+ cells are self-renewing, multipotent stem cells that give rise to all blood cells of the immune system through a process called hematopoiesis. As hematopoietic stem cells progress through hematopoiesis they generate the myeloid (monocytes, macrophages, granulocytes, megakaryocytes, dendritic cells, and erythrocytes), and lymphoid (T cells, B cells, and NK cells) lineages. The highly specialized cells that arise from hematopoietic stem cells work collaboratively in defending the body against infection and disease.

Human bone marrow CD34+ stem and progenitor cells are positively selected using immunomagnetic anti-CD34 (clone QBEND10) microbeads from bone marrow mononuclear cells. Isolated primary cells are characterized by flow cytometry to ensure a highly pure and viable cell population.

Cells were obtained using Institutional Review Board (IRB) approved consent forms and protocols.

### **Product Info**

Amount :	1 Vial
Purification :	≥90% by Flow Cytometry
Content :	Each cryopreserved vial contains 0.5 million cells. Preserved in CryoStorâ, ¢ CS10 (10% DMSO)
Storage condition :	Immediately upon receipt, store in liquid nitrogen.

## **Application Note**

For cryopreserved samples, the freeze-thaw cycle may decrease cell viability by 10-15% post-thaw.

#### LIMITED USE RESTRICTIONS:

#### THIS PRODUCT IS SOLELY FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

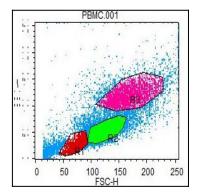
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This product is <u>solely for Internal Research Purposes</u> and <u>not for Commercial Purposes</u>. Commercial Purposes include, but are not limited to (1) use of the cell line in manufacturing; (2) use of the cell line to provide a service, information or data; (3) use of the cell line for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the cell line whether or not such cell lines are resold for use in research.

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