

## 14-2009: Human Cord Blood CD34+ Stem/Progenitor Cells(Discontinued)

### Description

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, erythrocytes), and lymphoid (T cells, B cells, NK cells) lineages. The highly specialized cells that arise from hematopoietic stem cells work collaboratively in defending the body against infection and disease.

We offers CD34+ hematopoietic stem and progenitor cells from human cord blood in an assortment of pre-selected volumes and formats (fresh or cryopreserved) from single or pooled donors. CD34+ cells are positively selected using immunomagnetic anti-CD34 (clone QBEND10) microbeads from cord blood mononuclear cells. Isolated cells are characterized by flow cytometry to ensure a highly pure and viable cell population.

We offers single and mixed donor CD34+ hematopoietic stem and progenitor cells. Mixed donor pools are from two or more donors and are available in larger lots. Single donor cells are isolated from a single umbilical cord blood sample.

Cord blood is collected from mothers that are negative for HIV, HepB, and HepC during pregnancy. Infectious disease testing, LCMV testing and HLA typing on the cord blood can be provided as a custom order.

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

## Product Info

**Amount :** 1 Vial  
**Content :** Each cryopreserved vial contains 0.5 million cells. Preserved in StemSpan and 10% DMSO  
**Storage condition :** Immediately upon receipt, store in liquid nitrogen.

## Application Note

### LIMITED USE RESTRICTIONS:

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

**By use of this product, user agrees to be bound by the terms of this limited use statement.**

**This product is solely for Internal Research Purposes and not for Commercial Purposes. 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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