

## 14-2013: Human Cord Blood CD133+ Stem/Progenitor Cells(Discontinued)

**Reactivity :** Human

### Description

**Cell Source:** Umbilical Cord Blood

**Cell Type:** Stem/Progenitor Cells

**Donor Attributes:** Maternal Blood HIV-, HepB-, HepC-

**Single or Mixed Donor:** Single and Mixed

Human CD133 is a transmembrane glycoprotein that is expressed on CD34+ and CD34- multipotent stem and progenitor cells that are involved in hematopoiesis. Unlike CD34+ cells, cord blood CD133+ cells are also expressed on circulating endothelial precursors that are involved in vasculogenesis. Additionally, cord blood CD133+ hematopoietic cells have been found to differentiate in vitro to cells of the ectodermal and mesodermal lineages implying that these cells have the ability to give rise to cells of non-hematopoietic lineages.

We offers CD133+ hematopoietic stem and progenitor cells from cord blood in an assortment of pre-selected volumes and formats (fresh or cryopreserved) from single or pooled donors. Cord blood CD133+ stem and progenitor cells are positively selected using immunomagnetic anti-CD133 (clone AC133) 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 CD133+ hematopoietic stem and progenitor cells. Mixed donor pools are from two or more donors. 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. Testing on 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

**Purification :** ≥90% by Flow Cytometry

**Content :** Each cryopreserved vial contains 0.5 million cells. Preserved in CryoStor<sup>®</sup>,<sub>2</sub> 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.**

**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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