

## 14-2004: Human Cord Blood CD4+ Helper T Cells(Discontinued)

### Description

Human CD4+ helper T cells express the CD4 co-receptor and play an important role in the adaptive immune system by assisting other white blood cells. These cells are activated when they are presented an antigen on the MHC class II molecule of an antigen-presenting cell (APC). Once activated, CD4+ helper T cells secrete lymphokines that assist in the activation of B cells to secrete antibodies that target specific microbes and assist in the activation of cytotoxic T cells to destroy infected target cells.

Human cord blood CD4+ helper T cells are enriched by means of negative selection. Cells expressing CD8, CD14, CD16, CD19, CD20, CD36, CD56, CD66b, CD123, TCR $\alpha/\beta$ , and CD235a are depleted from the cord blood mononuclear cell population using immunomagnetic particles leaving purified, untouched CD4+ helper T cells. Cell isolations are characterized by flow cytometry to ensure a highly pure and viable cell population.

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

<b>Amount :</b>	1 Vial
<b>Content :</b>	Each cryopreserved vial contains 10 million cells. Preserved in CryoStor <sup>®</sup> , $\phi$ CS10 (10% DMSO)
<b>Storage condition :</b>	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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