**HEMATOPOIETIC CELLS**

**Human CD34+ Hematopoietic Progenitors**

<table>
<thead>
<tr>
<th>PRODUCTS</th>
<th>NUMBER OF CELLS / VIAL</th>
<th>CATALOGUE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolated CD34+ hematopoietic stem cells 200K</td>
<td>200,000 cells</td>
<td>1001-200</td>
</tr>
<tr>
<td>Isolated CD34+ hematopoietic stem cells 500K</td>
<td>500,000 cells</td>
<td>1001-500</td>
</tr>
<tr>
<td>Isolated CD34+ hematopoietic stem cells 200K HLA</td>
<td>200,000 cells</td>
<td>on request</td>
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<td>Isolated CD34+ hematopoietic stem cells 500K HLA</td>
<td>500,000 cells</td>
<td>on request</td>
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<tr>
<td>Mixed / pooled CD34+ hematopoietic stem cells 200K</td>
<td>200,000 cells</td>
<td>1001-200M</td>
</tr>
<tr>
<td>Mixed / pooled CD34+ hematopoietic stem cells 500K</td>
<td>500,000 cells</td>
<td>1001-500M</td>
</tr>
<tr>
<td>Matched CD34- cells fraction</td>
<td>50.10^6 cells</td>
<td>1002-50M</td>
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</tbody>
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Abcell-bio offers CD34+ cells isolated by immuno-magnetic selection from human umbilical cord blood. The ability of these cells to self-renew or differentiate into mature cells of different lineages are tested using cytokine combinations. Our CD34+ hematopoietic progenitors are derived from a single donor. Multiple quality controls are performed to certify performance, purity, viability and virologic compliance.

**QUALITY CONTROL**

The CD34+ cell purity is ≥ 95%. Once isolated, the cells are frozen in FBS-10% DMSO (freezing medium). Virologic (HIV1/2, HBV, HCV) and mycoplasma detection tests are performed on all batches. A full certificate of analysis is provided for each batch of CD34+ cells ordered.

**PRECAUTIONS FOR USE**

Although testing for HIV, HBV and HCV contamination is negative, these products must be handled using Biosafety Level 2 conditions. Refer to the Safety Data Sheet for additional information.

**PRODUCT HIGHLIGHTS**

→ Ready-to-use cells.
→ High purity ≥ 95% of CD34+ cells.
→ Cell viability.
→ Order customization on request: HLA genotyping, specific batch size, biological data (sex of the baby, age of the mother, etc.).

**STORAGE**

→ Upon receipt, immediate use or storage under appropriate conditions.
→ Store between -150°C and -196°C for up to 12 months from the date of receipt.

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**Flow cytometry analysis of CD34+ progenitors, isolated from human umbilical cord blood.**

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**CD34 labeling (CD34-APC)**

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**Isotypic labeling (IgG1-APC)**

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RECOMMENDED UTILISATION

The cryotube containing the frozen cells is delivered in dry ice. Upon receipt, the cells should be cryopreserved at -150°C, in liquid nitrogen or used immediately (see thawing protocol below).

THAWING PROTOCOL FOR CRYOPRESERVED CELLS

1. Prepare the culture medium and warm to 37°C.

2. Remove the cryotube from its packaging or liquid nitrogen and quickly immerse in a water bath at 37°C.

3. When only a small ice cube remains in the tube, quickly transfer the cell suspension into a 15 ml tube filled with 10 ml of culture medium for CD34+ cells at 37°C (from Step 1).

4. Centrifuge 5 minutes at 300g and 4°C.

5. Remove the supernatant. Resuspend the pellet in the volume of culture medium required to obtain the desired cell density.

6. Seed cells in a multi-well culture plate (or culture flask). The recommended density ranges from $1.10^4$ to $5.10^4$ CD34+ cells/ml.

7. Incubate the culture plate at 37°C, 5% of CO$_2$. Change the culture medium every 2 days.

Work quickly to ensure cell viability.

Manipulate in a sterile environment.

ABCELL-BIO GUARANTEES CELL QUALITY ONLY IF RECOMMENDED PROTOCOL IS RESPECTED