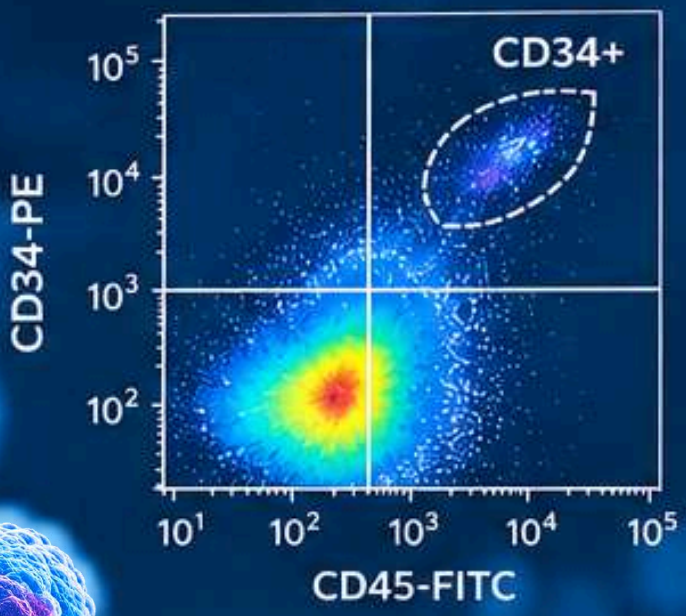
immunostep
we know how

SCK | SCK 2

STEM CELL KIT

Viable CD34+ cell counts. One streamlined workflow.

Absolute enumeration of CD34+ hematopoietic progenitor cells by flow cytometry



Single-platform absolute counting

Direct CD34+ cell counting with StepCount beads, without a hematology analyzer.

Viability assessment

7-AAD staining distinguishes viable and non-viable cells.

Simple no-wash workflow

Streamlined stain-lyse-acquire preparation with minimal cell handling.

Based on key principles of the ISHAGE single-platform approach

CD45/CD34 immunophenotyping, viability assessment, and fluorescent counting beads.

CE | IVD **50 TESTS**

COMING SOON
Automated CD34+ Analysis Software

FROM SAMPLE TO RESULTS

A streamlined four-step workflow for viable CD34+ cells/µl

SCK | SCK2

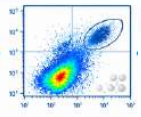
1 STAIN-Label the cells

CD45-FITC/ CD34-PE + 7-AAD in a StepCount tube

2 LYSE-Remove erythrocytes

Ammonium chloride-based lysing solution. No washing step required.

3 IDENTIFY- Viable CD34+ cells



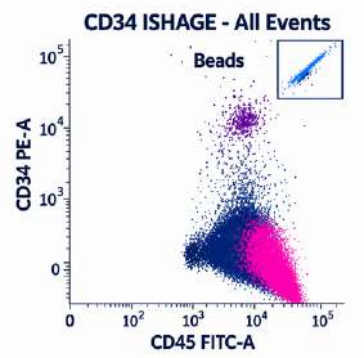
Exclude non-viable cells (7-AAD) and identify the counting microspheres.

4 QUANTIFY-Results

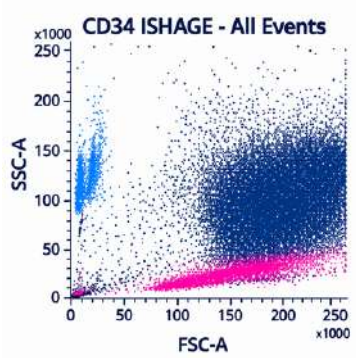
CD34+ percentage and absolute count (cells/ µL) using the known number of StepCount microspheres.

ANALYSIS STRATEGY

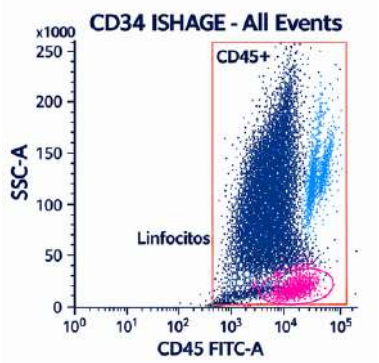
CD34+ cell enumeration-ISHAGE- based gating strategy



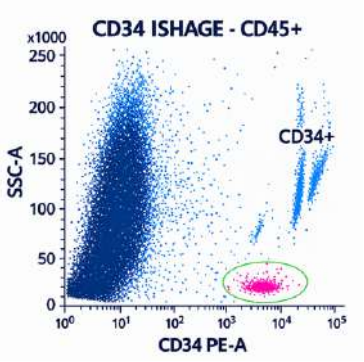
Identification of fluorescent counting beads.



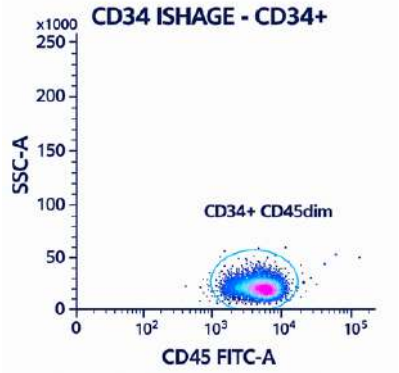
Overview of forward and side scatter characteristics of all acquired events.



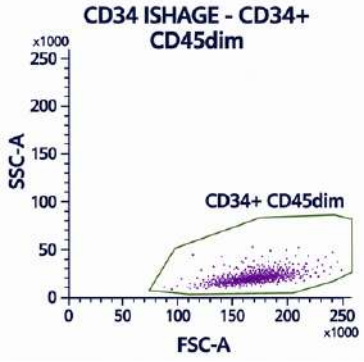
Identification of CD45+ leukocytes and the lymphocyte reference population.



Selection of CD34+ cells exhibiting low side scatter characteristics.



Identification of the CD34+ CD45dim population with low side scatter characteristics



Confirmation of the expected light-scatter characteristics of the selected CD34+ CD45dim cells.

Scientific references: Keeney M. et al. Single platform flow cytometric absolute CD34+ cell counts based on the ISHAGE guidelines. Cytometry. 1998;34:61-70.

Two configurations- 50 tests each

Components	SCK (50 tests)	SCK2 (50 tests)
CD45-FITC / CD34-PE	✓	✓
CD45 / IgG1 isotype control	✓	–
StepCount counting tubes	✓	✓
7-AAD viability reagent	✓	✓
10× NH_4Cl lysing solution	✓	✓

SCK: Includes an additional isotype control for assessment of non-specific staining.

SCK 2: Provides the core reagents required for CD34+ enumeration without the isotype control.

Suitable for different sample types

- Peripheral blood
- Mobilized peripheral blood
- Bone marrow
- Leukapheresis products
- Umbilical cord blood

Antibody Clones: CD45 (HI30), CD34 (581)

Storage: 2-8°C. Protect from light. Do not freeze.

CE IVD For professional in vitro diagnostic use.

Discover more Scan QR code for product information, technical documentation and support.

*Automated analysis software is under development and is not included in the current kit.

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