

ProCOUNT™

Progenitor Cell Enumeration System

Now Becton Dickinson offers

the first fully integrated flow

cytometry system for progenitor

cell enumeration—

improving both reproducibility

and productivity.



The new ProCOUNT™ system combines powerful software with unique reagents to reduce variability in CD34⁺ counts with a simpler procedure. From fast sample preparation with the ProCOUNT reagent kit to automated acquisition and analysis with ProCOUNT software, ProCOUNT delivers unparalleled ease of use and reproducibility. Used with a Becton Dickinson FACSCalibur™, FACSsort™, or FACScan™ flow cytometer, this system sets a new standard in reliable progenitor cell enumeration.†

ProCOUNT

Progenitor Cell Enumeration Kit

Flow Cytometry's Only Complete, Integrated System

ProCOUNT software automates instrument setup and control, sample acquisition, sample analysis, and data management. The ProCOUNT reagent, incorporating Becton Dickinson's TRUCOUNT™ counting technology, provides a level of confidence unattainable by other CD34 cell enumeration strategies.

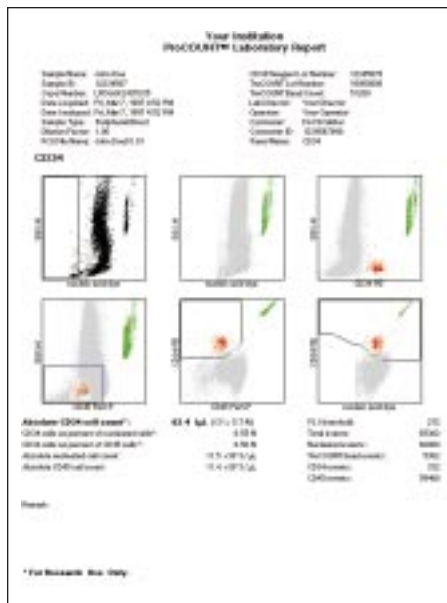
Improves Accuracy, Reduces Variability

Current flow cytometric methods for determining the percent and absolute number of CD34⁺ cells are associated with significant variability, which may be attributed to different sample preparation techniques, reagents, and analysis methods. The ProCOUNT system overcomes these limitations.

ProCOUNT methodology	Advantage over other methods
Internal reference particle for determining absolute cell counts	Eliminates site-to-site variability due to hematology counter and using multiple instruments to determine a single answer
No-wash technique	Eliminates cell loss that can occur during cell washing steps
Nucleic acid dye threshold reagent	Provides clear separation of the CD34 ⁺ cells from instrument noise and debris
Precision-based acquisition	Ensures sufficient number of CD34 ⁺ cells are acquired for analysis
Automated, multiparameter analysis	Provides consistency in data analysis by removing operator-derived analysis error

Comprehensive, Flexible Reporting

ProCOUNT provides clear reports containing valuable, easy-to-read information for patient management. All results, including CD34⁺ cells in the harvest, may be exported to a tab-delimited file.



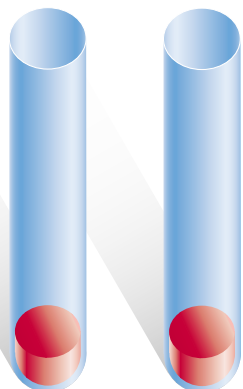
Unprecedented Ease of Use

Simple, two-step stain and lyse technique is easy to perform, requiring only minimal sample handling or processing. Both acquisition and analysis are automated.

Lab Reports feature comprehensive analysis and built-in quality control for added convenience and tracking. CD34⁺ cells are shown in red and beads are in green.

Physician Reports provide key clinical information to optimize patient management.

Add:
20 μL reagent
50 μL sample

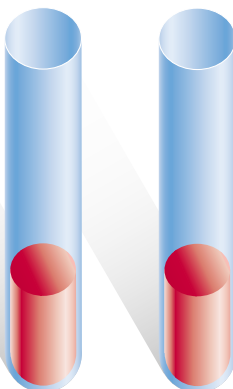


CD34

Control

Incubate 15 minutes

Add:
450 μL
1X FACS™ Lysing Solution



CD34

Control

Incubate 30 minutes

Analyze on Cytometer†



ProCOUNT

Progenitor Cell Enumeration Kit



ProCOUNT Reagents Take the Guesswork out of CD34 Cell Counts

ProCOUNT's unique reagent formulation enables you to reliably enumerate CD34⁺ cells—even in samples where these counts are very low. The ProCOUNT reagent kit features a combination of monoclonal antibodies, a nucleic acid dye, and counting beads:

- Three-color CD34 reagent (nucleic acid dye/CD34 PE/CD45 PerCP)
- Three-color isotype control reagent (nucleic acid dye/IgG₁ PE/CD45 PerCP)
- TRUCOUNT Absolute Count Tubes

ProCOUNT may be used to determine these important CD34 parameters:

- CD34⁺ cell count per μ L of sample
- CD34⁺ cells as a percentage of total leucocytes (CD45⁺ cells)
- CD34⁺ cells as a percentage of nucleated cells
- CD34⁺ cells in the apheresis harvest

For more information on reducing your lab's variability in CD34 counting, please contact your local Becton Dickinson Immunocytometry Systems representative today.

* US Patent Nos. 4,714,680, 4,965,204 and 5,035,994.

† ProCOUNT is under US regulatory review for use with: peripheral blood, mobilized peripheral blood, and leukapheresis products.

‡ ProCOUNT reagents and automated software are optimized for use on FACSCalibur, FACSsort, and FACScan flow cytometers; samples prepared with ProCOUNT reagents may be acquired and analyzed manually on other flow cytometers.

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