
Lab Dept: Flow and Immunology

Test Name: CD34

General Information

Lab Order Codes: CD34

Synonyms: Hematopoietic Progenitor Stem Cell Assay; Progenitor Cell Assay; Stem Cell Assay

CPT Codes: 86367 – Stem cells, total count

Test Includes: Enumeration of hematopoietic progenitor stem cells using a combination of CD45/CD34 monoclonal antibodies.

Logistics

Test Indications: Flow cytometric evaluation of CD34+ cell level is necessary for measuring the hematopoietic progenitor cells in dose requirement protocols of stem cell transplantation. Quantification of CD34+ cells is also used during mobilization of hematopoietic cells and leukapheresis procedures. The total number of CD34+ cells collected during leukapheresis can be estimated.

Lab Testing Sections: Flow and Immunology - Sendouts

Referred to: Fairview University Diagnostic Laboratories (Test: IFC)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1-3 days, test performed Monday - Friday

Special Instructions: Provide diagnosis, age, collection date and time, specimen type, WBC and leukocyte differential.

Specimen

Specimen Type: Whole blood

Container: Lavender top (EDTA) tube

Draw Volume: 3 mL (Minimum: 2 mL) blood

Processed Volume:	Specimen will be processed by reference lab facility.
Collection:	Aseptic collection. Mix specimen well by gentle inversion.
Special Processing:	Lab Staff: Do Not centrifuge. Store specimens in the refrigerator. Contact IFC lab prior to shipping. Ship specimens at ambient temperatures to arrive within 24 hours of collection.
Patient Preparation:	None
Sample Rejection:	Improper specimen collection or handling; clotted specimen; specimen received more than 48 hours after collection; mislabeled or unlabeled specimen

Interpretive

Reference Range:	Results are reported as a percentage of CD45/CD34+ total nucleated cells. An interpretation is provided with each report.
Critical Values:	N/A
Limitations:	N/A
Methodology:	Multi-color immunofluorescence and flow cytometry
References:	Fairview University Diagnostic Laboratory November 2010
Updates:	1/18/2006: 2006 CPT updates