
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: Specimens are accepted Monday-Thursday, 24 hours/day and Friday before 1300. Testing is performed Monday-Friday, 8am-5pm ONLY.

Turnaround Time: 1-3 days

Special Instructions: **Do not** collect specimens on Friday after 1200 or on Saturday. Specimens must arrive at Fairview within 24 hours of collection. 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: 1 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 24 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 January 2018
Updates:	1/18/2006: 2006 CPT updates 1/26/2018: Updated test availability