

FLOW CYTOMETRY REPORT

Specimen: Bone Marrow

Viability: 95%

Panel: Acute Leukemia Orientation Panel

POPULATION GATING STRATEGY

Cells were gated on CD45 vs. Side Scatter (SSC). A distinct population of blasts was identified in the "dim CD45 / low SSC" window, comprising **26.5%** of total events.

IMMUNOPHENOTYPIC ANALYSIS

Lineage	Markers Tested	Expression on Blasts
Stem Cell	CD34, CD117, HLA-DR	CD34+, CD117+, HLA-DR+
Myeloid	CD13, CD33, CD15, CD64, MPO	CD13+, CD33+, MPO+
Monocytic	CD14, CD11b, CD64	CD64 (dim), CD14 (-)
B-Lymphoid	CD19, CD10, CD20, CD79a	Negative
T-Lymphoid	CD3, CD5, CD7, CD2	Negative

INTERPRETATION

The abnormal cell population expresses stem cell markers (CD34, CD117) and pan-myeloid antigens (CD13, CD33). They are negative for lymphoid lineage markers.

Conclusion: Phenotype consistent with **ACUTE MYELOID LEUKEMIA**. No aberrant expression of lymphoid antigens (MPAL ruled out).

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