

Flow Cytometry/ Immunophenotyping

The Allina Health Flow Cytometry/Immunophenotyping Laboratory provides high quality immunophenotyping and DNA ploidy analysis for Allina Health. It also serves as a reference laboratory for clinical outreach work and for clinical research projects.

The following is a listing of Flow Cytometry panels currently available. *All panels include pathologist morphology and flow cytometry interpretation unless otherwise noted.*

Acute Leukemia

Determine blast cell phenotype

Acute Leukemia PB

Triaging panel for identification of blasts in peripheral blood.

BAL CD4/CD8

Monitor T-cell subsets on Bronchoalveolar lavage (BAL) specimens
No pathologist morphology or interpretation.

B Cell Enumeration

B and T lymphocyte enumeration for therapeutic monitoring
No pathologist morphology or interpretation.

B Cell Leukemia/Lymphoma

Determine abnormal B cell lymphoproliferative phenotype

CD4/CD8/T cells Panel

Monitor CD4 levels for HIV positive patients
No pathologist morphology or interpretation.

Cytokeratin

Determine presence of a cytokeratin positive population

DNA Ploidy

Determine %S-phase and ploidy on submitted products of conception (POC) tissue blocks

Fetal Hemoglobin

Determine the presence of fetal cells in maternal peripheral blood

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Hairy Cell Leukemia

B Cell Leukemia /Lymphoma panel plus hairy cell-associated markers

Hairy Cell Leukemia Residual

Monitor residual Hairy Cell Leukemia post-therapy

Immunodeficiency Panel

Comprehensive T cell subset enumeration

No pathologist morphology or interpretation

Light Chain Screen

Screen for light chain-restricted B cells

Plasma Cell Heavy Chains

Determine the phenotype of abnormal plasma cells

Plasma Cell Screen

Screen for light chain-restricted plasma cells

Paroxysmal Nocturnal Hemoglobinuria

Enumerate granulocytes, monocytes and RBC's lacking PNH-associated markers

No pathologist morphology

Precursor/blast Enumeration

Enumerate myeloid-lineage and B-lineage precursor/blast cells

Residual Acute Myeloid Leukemia

Monitor residual AML blasts based on pre-treatment phenotype

Residual B-Acute Lymphoblastic Leukemia

Monitor residual B-ALL blasts based on pre-treatment phenotype

Residual T-Acute Lymphoblastic Leukemia

Monitor residual T-ALL blasts based on pre-treatment phenotype

T & B Cell Screen

Screen for aberrant T cells, light chain-restricted B cells and excess NK cells

T Cell Leukemia/Lymphoma

Determine abnormal T cell lymphoproliferative phenotype

For a complete listing of the markers included in each panel, please consult the Flow/Cytometry section of the Allina Health Laboratory Directory of Services.