

Precision flow cytometry delivering deeper immune insights

Advance your therapeutic pipeline with high-quality conventional and spectral flow cytometry expertise designed for the complexity of today's drug development. Whether you are working on hematological malignancies, cell therapy, or biomarker discovery, our team provides the scientific rigor and flexibility needed to keep your programs moving forward with confidence.

Access a full range of validated off-the-shelf assays and customized services spanning exploratory panels through clinically validated LDTs supporting primary and secondary endpoints.

Validated off-the-shelf assays

MRD
Sample type: bone marrow, peripheral blood

New: AML NanoMRD™

- ELN-compliant, 23-color single-tube solution with broad myeloid, lymphoid, and stem cell coverage
- Low sample input for limited and precious samples
- 0.01% (10^{-4}) sensitivity for confident MRD assessment
- 3-day turnaround time enabling rapid, data-driven clinical trial decisions
- Hemodilution-adjusted testing with LAIP/DfN analysis for reduced false negatives and deeper prognostic insight

Assay	Cell type
B-ALL MRD panel	Lymphocytes, CD45 dim, detection of residual B-lymphoblasts
CLL MRD modified ERIC panel	Lymphocytes, detection of residual CLL cells
Multiple myeloma MRD panel	Lymphocytes, normal/abnormal plasma cells, intracellular light chain restriction evaluation, detection of residual malignant plasma cells

Immunophenotyping	
Sample type: peripheral blood mononuclear cells	
Assay	Cell type
MDSC/DC panel	MDSC subsets, monocytes, B-cell, NK-cell, T-cell, antigen presentation, dendritic cell subsets
Activation and phenotyping panel	Lymphocytes, T-cell, B-cell, monocytes, NK-cell, T-cell immune checkpoint
BD TBNK™ Panel	Lymphocytes, T-cell, B-cell, NK-cell

Sample type: peripheral blood	
Assay	Cell type
BD Multitest™ 6-color TBNK panel with Trucount tubes	Lymphocytes, T-cell, B-cell, NK-cell, cell enumeration
Adaptive NK-cell subset panel	Antigen presentation, cytotoxicity, monocytes, neutrophils, macrophages, NK-cell, NKT, NK-cell activation, proliferation
Comprehensive T-cell and monocyte panel	Lymphocytes, monocytes, B-cell, B-cell memory, NK-cell, T-cell, $\lambda\delta$ T-cell subsets, T-cell activation, T-cell costimulation, T-cell memory, Treg, proliferation
Cytek® cFLUOR immunoprofiling kit	Lymphocytes, monocyte subsets, neutrophils, macrophages, B-cell, B-cell memory, B-cell class switching, NK-cell subsets, T-cell, T-cell activation, T-cell costimulation, T-cell memory, Treg
Flow Cast® Basophil activation test (BAT)	Activated basophils (fMLP and FcεR1)
MDSC and dendritic cell panel	MDSC subsets, monocytes, B-cell, NK-cell, T-cell, antigen presentation, dendritic cell subsets
NK cell subset Panel	Antigen presentation, cytotoxicity, monocytes, macrophages, NK-cell, NKT, NK-cell subsets and activation, proliferation
T-cell gamma delta panel	Lymphocytes, NK-cell subsets and activation, T-cell, $\lambda\delta$ T-cell subsets, $\lambda\delta$ T-cell costimulation, T-cell costimulation, Treg, proliferation
T-cell subset panel	Lymphocytes, B-cell, B-cell memory, NK-cell, T-cell, T-cell activation, T-cell costimulation, T-cell memory, Treg, proliferation
TBNK dendritic activation panel 2	Lymphocytes, dendritic cells, antigen presentation, B-cell, NK-cell, T-cell, T-cell activation, T-cell memory, cytotoxicity, proliferation: Ki-67
T-cell activation and exhaustion panel	T-cell, T-cell activation, T-cell memory, Treg, T-cell immune checkpoint, cytotoxicity, proliferation, viability
T-cell and NK-cell subset activation panel	Macrophages, NK-cell subsets, NKT, T-cell, T-cell activation, T-cell memory, Treg, T-cell immune checkpoint, cytotoxicity, proliferation
T-cell subset and monocyte function panel	Lymphocytes, monocytes, B-cell, B-cell memory, NK-cell, T-cell, T-cell activation, T-cell costimulation, T-cell memory, Treg, proliferation
T-cell profiling assay	Lymphocytes, T-cell, T-cell activation, T-cell malignancy, T-cell memory, Treg, T-cell immune checkpoint, proliferation
Sample type: bone marrow	
Assay	Cell type
MDSC-dendritic cell assay	MDSC subsets, monocyte and macrophage subsets, neutrophils, B-cell, NK-cell, T-cell, antigen presentation, dendritic cell subsets
T-cell and NK-cell profiling assay	Lymphocytes, monocyte subsets, macrophages, NK-cell subsets and activation, NKT, B-cell, T-cell, T-cell activation, T-cell malignancy, T-cell memory, Treg, T-cell immune checkpoint, proliferation

Sample type: peripheral blood, bone marrow	
Assay	Cell type
Expanded MDSC and dendritic cell panel	MDSC subsets, monocyte and macrophage subsets, neutrophils, B-cell, NK-cell, T-cell, antigen presentation, dendritic cell subsets

Malignant neoplasms

Sample type: bone marrow, peripheral blood	
Assay	Cell type
AML follow-up panel	Lymphocytes, CD45 dim (detection of myeloblasts), monocytes, granulocytes, assessment of myeloid malignancy
B-ALL add-on panel	Lymphocytes, CD45 dim (detection/confirmation of lymphoblasts), granulocytes, assessment of B-cell lymphoid malignancy
B-cell lymphoma follow-up panel	Lymphocytes, assessment of B-cell lymphoid malignancy, distinguishes CLL and MCL, light chain restriction evaluation
BCMA multiple myeloma panel	Normal/abnormal plasma cells, monitoring BCMA, intracellular light chain restriction evaluation
CLL/mantle cell lymphoma panel	Lymphocytes, differentiation between CLL and MCL
Extended leukemia/lymphoma panel	Lymphocytes, B-cell, T-cell, NK-cell/NKT-cell, CD45 dim (detection of blasts), hematogones, granulocytes, monocytes, plasma cells, identification of M6/M7 subtypes of AML, light chain restriction evaluation
Plasma cell panel	Lymphocytes, normal/ abnormal plasma cells, intracellular light chain restriction evaluation
Standard leukemia/lymphoma panel	Lymphocytes, B-cell, T-cell, NK-cell/NKT-cell, CD45 dim (detection of blasts), hematogones, granulocytes, monocytes, plasma cells, light chain restriction evaluation
T-ALL add-on panel	Lymphocytes, CD45 dim, identification of T-lymphoblasts
Sample type: peripheral blood	
Assay	Cell type
T-cell & B-cell panel	Lymphocytes, B-cell, T-cell, NK-cell/NKT-cell, CD45 dim, plasma cells, light chain restriction evaluation
T-cell therapy panel	Lymphocytes, T-cell, identification of Sézary Syndrome, identification of Anaplastic large cell lymphoma, T-cell activation, T-cell immune checkpoint

Non-Malignant neoplasms

Sample type: peripheral blood

Assay

Cell type

PNH panel

Red blood cells, granulocytes, monocytes, detection of PNH clones

BM: bone marrow, PB: peripheral blood, PBMC: peripheral blood mononuclear cells, MRD: molecular residual disease, ERIC: European Research Initiative of Chronic Lymphocytic Leukemia

Availability is subject to change. For a current listing, please contact a NeoGenomics representative.

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