Pharma Services
Flow Cytometry Overview

Innovative solutions for drug development programs
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We provide comprehensive flow cytometry services to enhance drug development programs.

NeoGenomics Pharma Services is committed to helping our partners get the most out of their projects. As a CAP/CLIA certified full-service diagnostic laboratory, we are able to deliver innovative testing solutions that go well beyond the norm of what most clinical labs are able to offer. These offerings include a vast array of biomarkers that have been clinically validated across multiple platforms when appropriate, a dedicated team of expert pathologists, scientists and project managers to help guide you for the duration of your project, as well as a proven track record of being able to rapidly convert your scientific findings into practical applications.

In order for NeoGenomics to consistently exceed our customer’s expectations and deliver uncompromising quality, our flow cytometry menu has continued to evolve. Clients have a variety of validated clinical grade panels to choose from across different disease states as well as the ability to order custom panels. Utilizing our 14 color flow systems, clients will be able to get more data from less sample while maintaining data integrity and lowering TAT. We are committed to being platform agnostic and have state of the art Beckman Coulter Navios as well as Becton Dickinson Fortessa systems to support highly complex esoteric panels.

Highlights of Our Flow Cytometry Program Include:

- **Comprehensive flow cytometry platforms** including Becton Dickinson Fortessa and Beckman Coulter 3-laser, 10-color, high-throughput Navios.

- **Clinically validated panels in multiple disease states** along with an extensive antibody library that can be customized to fit any testing combination desired

- **Interrogation of every level of cell detail** including cell surface, intracellular cytokine, mitochondrial, and nuclear staining

- **Ability to isolate subpopulations and life cycle stages**
  - T, B, NK, plasma, stem, dendritic, granulocyte, RBC
  - Cell activation and proliferation, drug dosing, flux assays

- **High-sensitivity minimal residual disease monitoring**

- **Rigorous QC and reporting processes** with complete traceability to minimize errors

- **Central pathology review, custom panels, reporting and ability to transfer data from alternate platforms**

- **Pharma Services** provides experienced project teams for supporting academic institutions, pharmaceutical companies, and the biotechnology industry

- **Fast TAT** with reports delivered in less than 24 hours

- **Custom assay development**
Modular Assay Design

- Decreases optimization period
- Custom assay, clinical reference, faster validations

**Antibodies**

- CD3: PC5
- CD3: APC-A750
- CD4: PE
- CD5: PC5
- CD5: PC7
- CD5: APC
- CD5: APC-A750
- CD7: APC-A750
- CD8: APC-A750
- CD10: PE
- CD10: PC7
- CD11b: Pacific Blue
- CD11c: PE
- CD11c: PC7
- CD13: PE
- CD13: PC5.5
- CD14: FITC
- CD14: APC-A750
- CD15: FITC
- CD15: PE
- CD16: APC-A750
- CD19: PE
- CD19: ECD
- CD19: PCS
- CD19: APC-A700
- CD20: PC7
- CD20: Pacific Blue
- CD22: APC
- CD23: APC-A700
- CD24: APC
- CD25: PC5
- CD25: APC-A700
- CD33: PC7
- CD33: APC

**Test Menu**

**Extended Leukemia/Lymphoma Panel**
CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD11b, CD11c, CD13, CD14, CD15, CD16, CD19, CD20, CD23, CD33, CD34, CD38, CD41, CD45, CD56, CD64, CD71, CD117, CD138, FMC-7, GlycophorinA, HLA-DR, kappa, lambda (31 Markers)

**Standard Leukemia/Lymphoma Panel**
CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD11c, CD13, CD14, CD16, CD19, CD20, CD23, CD33, CD34, CD38, CD45, CD56, CD64, CD117, HLA-DR, kappa, lambda (24 Markers)

**Additional Panel Options:**
- CD52 Analysis (Campath® Sensitivity)
- DNA Content & Cell Cycle Analysis
- PNH High Sensitivity Panel
- V-Beta T-Cell Clonality
- ZAP-70 Lymphoid Panel
- Other panels or antibodies available upon request
Sample Images

Ordering Information

Specimen Requirements:
- Bone Marrow Aspirate: 1-2 mL EDTA preferred. (1-2 mL minimum in Sodium Heparin tube or ACD (pale yellow/no gel separator) is acceptable. Please provide recent CBC report)
- Peripheral Blood: 1-2 mL EDTA tube preferred. (1-2 mL minimum in Sodium Heparin tube or ACD (pale yellow/no gel separator) is acceptable. Please provide recent CBC report)
- Bone Marrow Core: 1-2 cm minimum core length in RPMI.
- Fresh, Unfixed Tissue: 0.2 cm$^3$ minimum in RPMI.
- Fluids & FNAs: Equal parts RPMI and specimen volume, including cerebrospinal fluid (CSF).

NeoGenomics Laboratories is a specialized oncology reference laboratory providing the latest technologies, testing partnership opportunities, and interactive education to the oncology and pathology communities. We offer the complete spectrum of diagnostic services in molecular, FISH, cytogenetics, flow cytometry, and immunohistochemistry testing through our nation-wide network of CAP-accredited, CLIA-approved laboratories.

Committed to research as the means to improve patient care, we provide Pharma Services for pharmaceutical companies, in vitro diagnostic manufacturers, and academic scientist-clinicians. We promote joint publications with our client physicians. NeoGenomics welcomes your inquiries for collaborations. Please contact us for more information.