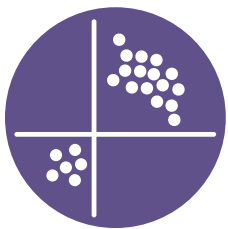




Pharma Services

Flow Cytometry Overview



Innovative solutions for drug
development programs



Innovative solutions for drug development programs

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 10-16 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 4-laser, 16-color, 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
- **Custom panels, bespoke data analysis and ability to transfer data from alternate platforms to our partner.**
- **Central pathology review and reporting**
- **Pharma Services** provides experienced project teams for supporting academic institutions, pharmaceutical companies, and the biotechnology industry
- **Fast TAT** with reports delivered in less than 72 hours
- **Custom assay development**

Portfolio

Immuno-Oncology	T-Cell Profiling	Maturation state and expression of native, activated, differentiated and exhausted phenotypes
		Enumeration of T-cell subsets: Th1, 2, 17, Tregs and CART
	B-Cell Phenotyping	Comprehensive panel for B-cell differentiation
Pharmacodynamic (PD)	Specialized Receptor Occupancy Assays	Determination of biological effective dose of target expression
Hematopoietic Neoplasms	Diagnosis/Prognosis	Biomarker panels in MM, CLL, AML, ALL, lymphoma and prognostic markers
	Minimal Residual Disease	MRD Panels for B-ALL, MM, and CLL

Flow Cytometry Panels

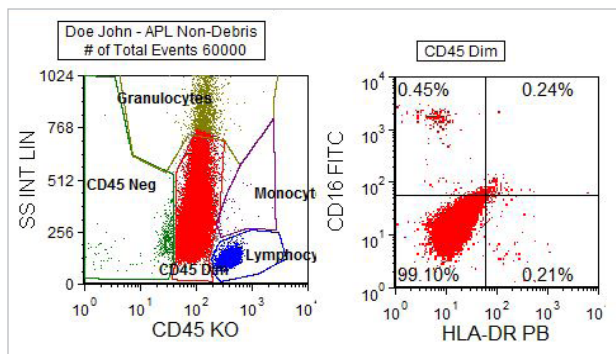
Immuno-Oncology	T-Cell Differentiation	CD4, CD8, CD45RA, CD45RO, CCR4, CD25, CD3, PD-1, PD-L1, CCR6, CXCR3, CD127
	T-Cell Maturation	CD4, CD8, CD45RA, PD-1, CD3, CD45RO, CD25, CD28, CD127, CD86
	T-Cell I-O Panel (in development)	CD4, CD8, CD38, CD45RA, PD-1, TIM-3, CD3, CD45RO, HLA-DR, LAG-3, CCR7, KI-67, CART
	T-Cell Activation/Exhaustion (in development)	CD4, CD8, CD38, CD45RA, PD-1, TIM-3, CD3, CD45RO, HLA-DR, LAG-3, CD25, CCR7, CD127
	B-Cell Panel	CD19, CD38, CD40, CD43, CD79b, CD123, CD274, CD5, CD27
	TB NK Panel	CD3, CD16, CD56, CD45, CD4, CD19, CD8
Pharmacodynamic (PD) Analysis	AML	CD117, CD33, CD45, CD34, CD123, CD19, CD3, CD56, CD14 (drop in panels)
	MM	CD45, CD38, CD138, LAMBDA, KAPPA, CD56, CD269, CD19 (drop in panels)
	CLL	CD45, CD19, CD5, CD3, LAMBDA, KAPPA (drop in panels)
Minimal Residual Disease Assessments	B-ALL MRD	CD45, CD38, CD34, CD19, CD10, CD22, CD20, CD58, CD9, CD71, CD13/CD33
	CLL MRD	CD5, CD3, CD81, CD79b, CD22, CD19, CD43, CD20
	MM MRD	KAPPA, LAMBDA, CD117, CD56, CD138, CD19, CD38, CD45, CD81, CD27, CD20

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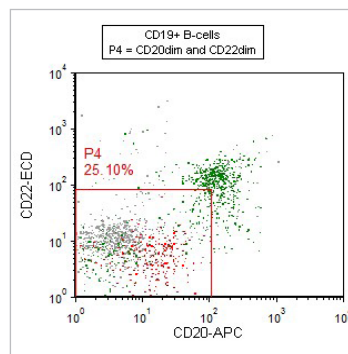
Flow Cytometry Panels (Continued)

Hematopoietic Neoplasms	Leukemia	CD2, CD3, CD4, CD5, CD7, CD10, CD11b, CD11c, CD13, CD14, CD15, CD16, CD19, CD20, CD22, CD23, CD33, CD34, CD38, CD41, CD45, CD56, CD64, CD71, CD117, CD138, HLA-DR, TdT, MPO
	B-Cell Lymphoma	CD5, CD10, CD11c, CD19, CD20, CD22, CD23, CD34, CD43, CD45, 3b, 103, 200, Kappa, Lambda, FMC-7
	T-Cell Lymphoma	CD1a, CD2, CD3, CD4, CD5, CD7, CD8, CD19, CD33, CD45, CD56
	Multiple Myeloma	CD19, CD20, CD38, CD45, CD56, CD117, CD138, Kappa, Lambda
	PNH	CD14, CD15, CD24, CD25, CD45, CD59, CD64, 235a, FLAER

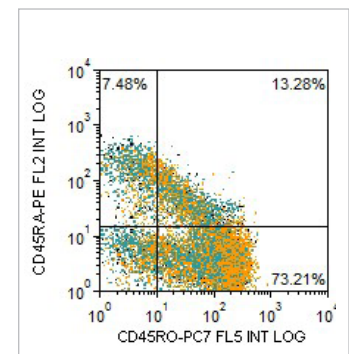
APL



CLL-MRD



T-Cell Maturation



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 testing, FISH, cytogenetics, flow cytometry, and immunohistochemistry through our nation-wide network of CAP-accredited, CLIA-certified 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.



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