

FLOW CYTOMETRY

NAVIGATE BIOPHARMA OFFERS A BROAD RANGE OF HIGH COMPLEXITY FLOW CYTOMETRY ASSAYS FOR CLINICAL BIOMARKER AND ENDPOINT ANALYSIS IN INVESTIGATIONAL CLINICAL TRIALS.

TECHNICAL CAPABILITIES

- · Broad library of specialized markers and panels offering differentiated solutions
- 13-16 color integrated, high-complexity panels for identifying phenotyping signatures
- T-cell subsets, B-cell subsets, LSC, plasma cells, and MDSC subpanels
- · Specializing in liquid tumor, minimal residual disease (MRD) monitoring for CLL/ALL/MCL/MM/AML
- Receptor occupancy assays for guiding dose selection
- Up-to-date knowledge and experience in developing customized panels

ONCOLOGY PORTFOLIO

IMMUNO-ONCOLOGY	T-Cell Profiling	Maturation state and ICI expression of native, activated, differentiated and exhausted phenotypes Enumeration of T-cell subsets: Th1, 2, 17 and Tregs
	B-Cell Phenotyping	Comprehensive panel for B-cell differentiation
	MDSC Identification	MDSC burden and subset analysis
PHARMACODYNAMICS (PD) ANALYSIS	Specialized Receptor Occupancy Assays	Determination of biological effective dose of target expression
HEMATOMALIGNANCY PROFILING	Disease Burden	Biomarker panels in MM, CLL and AML
	MRD Diagnosis	Panels for B-ALL, MM, CLL, MCL and AML
CELLULAR KINETICS	Cell Therapy	Measurement of CART on T-cells

MDSC: Myeloid Derived Suppressor Cells ICI: Immune Checkpoint Inhibitor BED: Biologically Effective Dose MRD: Minimal Residual Disease LSC: Leukemia Stem Cell ALL: Acute Lymphoblastic Lymphoma CLL: Chronic Lymphocytic Leukemia MCL: Mantle Cell Lymphoma MM: Multiple Myeloma AML: Acute Myeloid Leukemia

FLOW CYTOMETRY PANELS

IMMUNO-ONCOLOGY	T-Cell Differentiation	CD4, CD8, OX40, CD45RA, CCR4, CD25, CD3, PD-1, ICOS, LAG-3, CCR6, CXCR3, CD127
	T-Cell Maturation	CD4, CD8, CD27, CD45RA, PD-1, TIM-3, CD3, CD45RO, CD25, LAG-3, CD28, CCR7, CD127
	T-Cell Proliferation	CD4, CD8, CD38, CD45RA, PD-1, TIM-3, CD3, CD45, HLA-DR, LAG-3, CCR7, Ki-67, TCR-Vd2
	T-Cell Activation/ Exhaustion	CD4, CD8, CD38, CD45RA, PD-1, TIM-3, CD3, CD45RO, HLA-DR, LAG-3, CD25, CCR7, CD127
	B-Cell	CD19, CD38, CD40, CD43, CD79b, CD123, CD184, CD274, CD5
	MDSC	CD11b, CD11c, CD16, CD33, CD14, CD15, CD3/CD19/CD56, CD123, HLA-DR
	TBNK	CD3, CD16, CD56, CD45, CD4, CD19, CD8
	NK-Cell Proliferation	CD45, CD4, CD159a, CD3, CD122, CD25, CD335, CD8, CD56, NKG2D, CD107a, Ki-67, CD16
	T-B Reg	CD4, CD19, CD3, CD45RA, CD25, CD27, CD8, HLA-DR, CD38, CD127, FoxP3, CD24
PD ANALYSIS	AML	CD117, CD33, CD45, CD34, CD123, CLEC12A, CD19, CD3, CD56, CD14 (customizable)
	MM	CD45, CD38, CD138, LAMBDA, KAPPA, CD56, CD28, CD19, BCMA
	CLL	CD45, CD19, CD5, CD3, LAMBDA, KAPPA (customizable)
	AML/LSC	CD45, CD34, CD117, CD123, CD33, CD38, CD3, CD16, CD19, CD56, CD13
	CML-LSC-PDC	CLL-1, CD38, CD45, CD56, BDCA-2, CD117, CD26, CD34, Viability, CD123, CD16, CD44, CD3/20/235, CD86
MINIMAL RESIDUAL DISEASE ASSESSMENTS	B-ALL MRD	CD123, CD45, CD38, CD34, CD19, CD10, CD22, CD20, CD58, CD33, CD66c, CD9, CD13
	CLL MRD	CD5, CD3, CD81, CD79b, CD22, CD19, CD43, CD20
	MCL MRD	KAPPA, LAMBDA, CD19, CD79b, CD22, CD3, CD5, CD43, CD20, FMC7, CD23, CD22, CD10
	MM MRD	KAPPA, LAMBDA, CD117, CD56, CD138, CD19, CD38, CD45, CD81, CD27, CD28, CD200, CD20
	AML MRD	Based on European Leukemia Net guideline

SERVICES

PRECLINICAL PHASE II PHASE III PHASE III REGULATORY SUBMISSIONS

CUSTOM ASSAY DEVELOPMENT

Navigate BioPharma offers diverse and custom development for clinical biomarkers and diagnostic solutions for use in investigational clinical trials. Our highly skilled, responsive and dedicated team of scientists, project managers and pathologists partner with our pharma and biotech sponsors to create innovative and differentiated solutions.

CLINICAL TRIAL TESTING

Navigate BioPharma provides a broad portfolio of advanced laboratory capabilities utilizing state of the art, diverse technologies that can address clinical biomarker and precision medicine testing needs for every phase of clinical trials (first in human to global pivotal trials). Our integrated solutions address various sponsor needs such as biomarker identification, pharmacodynamics, efficacy readouts, patient inclusion, diagnosis and prognosis. Our comprehensive services team supports end-to-end clinical trial testing from sample logistics to project and data management for global clinical trials.

COMPANION DIAGNOSTICS (CoDx)

Navigate BioPharma has broad experience in the development and support of companion diagnostics and CE marking submissions. Our team can support your regulatory needs through its experience in performing risk assessments, IDE, PMA, IRBs as well as CE marking submissions. Our quality systems are designed to ensure compliance with applicable regulatory requirements for drug and diagnostic approvals.