

We offer expert flow cytometry services, designed to perform accurate and efficient cell counting and sorting, biomarker detection, and protein engineering tasks in support of preclinical and clinical studies.

Altasciences leverages extensive knowledge with exploratory and GLP studies from development to validation of panels for, but not limited to, immunophenotyping, intracellular staining (ICS), and cellular activation. Our sites are equipped with BD LSRFortessa™ to ensure flexibility between sites, sharing the same validation of instrumentation and panels to ensure a **smooth transition from preclinical to clinical** studies.

We have **labs located within a few minutes' drive of our clinical pharmacology units**, for rapid turnaround between sample collection and analysis; we are also equipped to support cell culture in case an *in-vitro* cell stimulation or pre-treatment is required prior to analysis.

Our dedicated Flow Scientists are highly skilled in sample processing, developing and optimizing custom panels for immune monitoring in multiparametric analysis to support preclinical and clinical studies.

Our on-site flow cytometers are equipped with carousel or high-throughput samplers to improve efficiency and support high-throughput acquisition.

STATE-OF-THE-ART EQUIPMENT

Two BD LSRFortessa™ with FACSDiva™ 9

3 lasers

- 488, 637, 405 nm
- detects up to 14 colors

5 lasers

- 355, 405, 488, 561, 640 nm
- detects up to 18 colors



BD LSR™ II with FACSDiva™ 9

4 lasers

- 405, 488, 532, 640 nm
- detects up to 14 colors



Two BD FACS Canto™ II with FACSDiva™ 6

2 lasers

- 488, 637 nm
- detects up to 6 colors



Flow Markers* Available for GLP and Non-GLP Use

<p>B cells/Plasma Cells</p> <ul style="list-style-type: none"> • CD19 • CD20 • CD21 • CD22 • CD27 • CD30 • CD38 • CD40 • CD45 • CD69 • CD80 • CD86 • IgD • IgM • HLA-DR 	<p>T-Cells</p> <ul style="list-style-type: none"> • CD3 • CD4 • CD8CD25 • CD27 • CD28 • CD30 • CD45 • CD45RA • CD69 • CD95 (FasL) • CD127 (IL-7ra) • CD278 (ICOS) • CD279 (PD-1) 	<p>NK Cells</p> <ul style="list-style-type: none"> • CD16 • CD30 • CD45 • CD95 • CD159a 	<p>RBC</p> <ul style="list-style-type: none"> • CD71 	<p>Granulocytes</p> <ul style="list-style-type: none"> • CD11b • CD33 • CD45 • FcεR1 • IgE
		<p>Intracellular Cytokines</p> <ul style="list-style-type: none"> • TNF-α • IL-2 • IFN-γ 		<p>Dendritic Cells</p> <ul style="list-style-type: none"> • CD11c • CD45 • CD80 • CD86 • HLA-DR
		<p>Monocytes</p> <ul style="list-style-type: none"> • CD11b • CD14 • CD45 • CD80 • CD86 • HLA-DR 		<p>Hematopoietic Progenitors</p> <ul style="list-style-type: none"> • CD34 • CD45 • CD117 (c-kit)
				<p>Platelets</p> <ul style="list-style-type: none"> • CD41 • CD61 • CD62p • Autoantibodies • Retic-Count
				<p>Viability and Proliferation</p> <ul style="list-style-type: none"> • 7AAD • Live/dead dye • BrdU • Ki-67

*The above markers are for Non-Human Primate Samples. Please inquire for specifics on species, tissues, and marker combinations.

Common NHP Panels *(Custom panels available upon request)*

	T/B/NK Monocyte		Platelets	Activated T-Cells		Memory T-cells		Regulatory T-Cells (TReg)	
Markers	<ul style="list-style-type: none"> • CD3 • CD4 • CD8 	<ul style="list-style-type: none"> • CD20 • CD16 • CD14 	<ul style="list-style-type: none"> • CD41 • CD62P • Viability Stain 	<ul style="list-style-type: none"> • CD3 • CD4 • CD8 	<ul style="list-style-type: none"> • CD69 • CD278 • Ki67 	<ul style="list-style-type: none"> • CD3 • CD4 • CD8 	<ul style="list-style-type: none"> • CD28 • CD69 • CD95 	<ul style="list-style-type: none"> • CD3 • CD4 • CD25 	<ul style="list-style-type: none"> • CD278 • CD69 • CD127
Cell Population	<ul style="list-style-type: none"> • T-cells • B-cells 	<ul style="list-style-type: none"> • NK cells • Monocytes 	<ul style="list-style-type: none"> • Platelets • Activated Platelets 	<ul style="list-style-type: none"> • Activated T-cells • Proliferating T-cells 		<ul style="list-style-type: none"> • Effector Memory T-cells • Central Memory T-cells • Naive Memory T-cells • Activated Memory T-cells 		<ul style="list-style-type: none"> • Regulatory T-cells Activated • Regulatory T-cells 	