

Immunophenotyping Package

New MI-CompLeukocyte™

Panel 1: Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD3	Pan-T cell marker
CD4	CD4+ T cell marker
CD8	CD8+ T cell marker
FoxP3	Regulatory T cell marker
CD25	Regulatory T cell marker
PD-1	T cell activation/Exhaustion marker
CD69*	Activation marker
KI-67	Proliferation marker
CD49b/CD335	Natural killer/Natural killer T cell marker
Viability Dye	Dead cell exclusion

*CD69 can substituted with alternative markers including LAG3, ICOS, or CTLA-4.

Panel 2: Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD19	B cell marker
CD11b	Pan-myeloid lineage marker
Ly-6G	Granulocytic-MDSC/ Neutrophil marker
Ly-6C	Monocytic-MDSC/Monocyte marker
CD11c	Dendritic cell marker
CD24	Dendritic cell delineation
F4/80	Pan-macrophage marker
MHC Class II	M1 macrophage & dendritic cell marker/Antigen presentation
CD206	M2 macrophage marker
Viability Dye	Dead cell exclusion

Panel 3: Antibody/Dye	Description
Counting Fluoresphere Beads	Cell enumeration reagent
CD45	Pan-hematopoietic cell marker
Viability Dye	Dead cell exclusion

Provides absolute counts, comprehensive analysis for 11 lymphoid and myeloid subsets, and T cell activation analysis.

Lymphoid Lineage Panels
MI-CompT™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD3	Pan-T cell marker
CD4	CD4+ T cell marker
CD8	CD8+ T cell marker
CD25	Regulatory T cell marker
FoxP3	Regulatory T cell marker
PD-1	T cell inhibitory signaling protein
CD69*	Activation marker
Ki-67	Proliferation marker
Viability Dye	Dead cell exclusion

Our most commonly utilized lymphoid panel, for analysis of three distinct T cell subsets plus activation profiles. *CD69 can substituted with alternative markers including LAG3, ICOS, or CTLA-4

MI-NK™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD49b/CD335	Natural killer/Natural killer T cell marker
CD3	Pan-T cell marker
Ly-6C	Myeloid-derived suppressor cell exclusion
Ly-6G	Myeloid-derived suppressor cell exclusion
Viability Dye	Dead cell exclusion

New MI-T Effector/Memory™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD3	Pan-T cell marker
CD4	CD4+ T cell marker
CD8	CD8+ T cell marker
CD44	Activation/Memory marker
CD62L	Naïve T cell/Memory marker
Ki-67	Proliferation marker

MI-BasicT™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD3	Pan-T cell marker
CD4	CD4+ T cell marker
CD8	CD8+ T cell marker
Viability Dye	Dead cell exclusion

MI-Treg™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD3	Pan-T cell marker
CD4	CD4+ T cell marker
CD8	CD8+ T cell marker
CD25	Regulatory T cell marker
FoxP3	Regulatory T cell marker
Viability Dye	Dead cell exclusion

MI-BasicT&B™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD3	Pan-T cell marker
CD4	CD4+ T cell marker
CD8	CD8+ T cell marker
CD19	B cell marker
Viability Dye	Dead cell exclusion

MI-T A&E™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD3	Pan-T cell marker
CD4	CD4+ T cell marker
CD8	CD8+ T cell marker
PD-1	T cell inhibitory signaling protein
CD69*	Activation marker
Ki-67	Proliferation marker
Viability Dye	Dead cell exclusion

Provides analysis of proliferation and activation/exhaustion markers in T cells.

*CD69 can substituted with alternative markers including LAG3, ICOS, or CTLA-4.

Myeloid Lineage Panels

Updated MI-CompMyeloid™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD11b	Pan-myeloid lineage marker
F4/80	Pan-macrophage marker
CD24	Macrophage exclusion/Dendritic cell delineation
Ly-6C	Monocytic-MDSC/Monocyte marker
MHC Class II	M1 macrophage & dendritic cell marker/Antigen presentation
CD206	M2 macrophage marker
Ly-6G	Granulocytic-MDSC/Neutrophil marker
CD11c	Dendritic cell marker
CD3/CD19	T and B cell exclusion
Viability Dye	Dead cell exclusion

Our most commonly utilized myeloid panel, for analysis of 5 distinct myeloid subsets. Formerly named the MI-TAM.

New MI-CompDC™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
F4/80, Ly-6G, CD19	Exclusion gate for macrophages, granulocytes, and B cells
CD11c	Dendritic cell marker
CD24	Dendritic cell delineation
CD8	DC1 subset marker
MHC Class II	Dendritic cell marker/Antigen presentation
CD103	DC1 subset marker
CD11b	DC2 subset marker
XCR1	Cross presenting/Migratory dendritic cell marker
CD80	Maturation marker
CD86	Maturation marker
Viability Dye	Dead cell exclusion

The MI-CompDC™ can be customized to analyze inflammatory DC and plasmacytoid DC subsets by substituting in Ly-6C/CD206 and Siglec-H respectively.

Updated MI-CompMDSC™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD11b	Pan-myeloid lineage marker
Ly-6C	Monocytic-MDSC/Monocyte marker
Ly-6G	Granulocytic-MDSC/Neutrophil marker
CD115	Monocyte marker/MDSC characterization
CD11c	Dendritic cell marker/MDSC characterization
F4/80	Macrophage marker/MDSC characterization
PD-L1	T cell inhibitory signaling protein
CD3/CD19	T and B cell exclusion
Viability Dye	Dead cell exclusion

Provides in depth characterization of myeloid-derived suppressor cells.

MI-MDSC™

Antibody/Dye	Description
CD45	Pan-hematopoietic cell marker
CD11b	Pan-myeloid lineage marker
Ly-6C	Monocytic-MDSC/Monocyte marker
Ly-6G	Granulocytic-MDSC/Neutrophil marker
CD3/CD19	T and B Cell exclusion
Viability Dye	Dead cell exclusion

Provides basic characterization of myeloid-derived suppressor cells.

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Client shall not reverse engineer, perform any studies to determine the structure or chemical composition, or elucidate the physical properties in which any of our processes or panels have been created.