



KEY EQUIPMENT

- Helios
- Hyperion

HIGHER-PLEXING AVAILABLE

- Up to 50-plex Suspension CyTOF
- Up to 40-plex Imaging Mass CyTOF

CAPACITIES

- Pan Antibodies
- Cell Barcoding
- Peptide MHC-I Tetramers
- HT MHC-I Peptide Screening
- Bespoke Recombinant Probes
- Versatile E. coli, Insect Cells and Expi293 Recombinant Bioengineering Systems

SAMPLE TYPE

- Blood
- Human
- Tissues
- Mouse

READOUTS

- Cell Viability
- Apoptosis
- Enzymatic Activity
- Cell Surface Antigen
- Intracellular Antigens
- Morphology

ANALYSIS TOOLS

- FlowJo
- Histocat
- Tissuegnostics

MASS CYTOMETRY

High-Plex. High-Throughput. Bespoke

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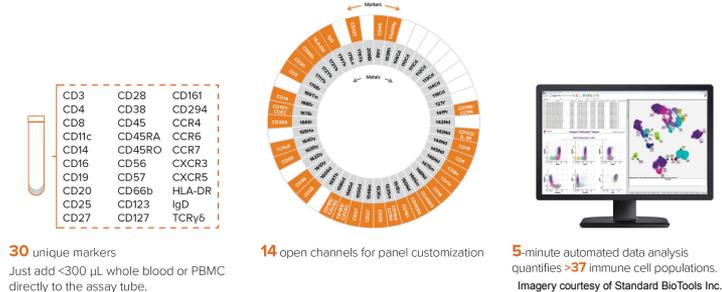
CyTOF instruments are alternative technology to flow cytometry. Instead of fluorescent molecules, heavy metals are conjugated to antibodies for cell phenotyping with minimal spillover. With advances in CyTOF, we are no longer limited to just 40 antibodies. Instead, you can talk to us for staining panel design, sample preparation & acquisition using the new cadmium panel for various cell types. Alternatively, we can produce recombinant probes and customize hybrid staining panel to fit your research and ensure optimum outcomes.

SELECTED PUBLICATION

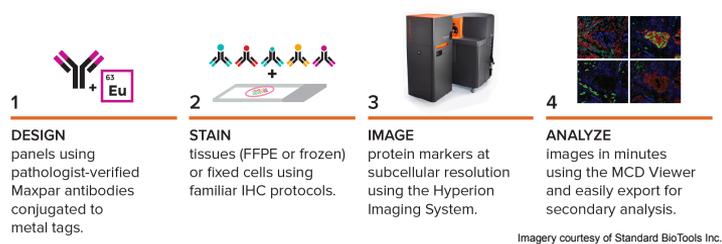
- Lim J et al. Data-driven analysis of COVID-19 reveals persistent immune abnormalities in convalescent severe individuals. *Front Immunol.* 2021 12:710217.
- Chan YH et al. Asymptomatic COVID-19: disease tolerance with efficient anti-viral immunity against SARS-CoV-2. *EMBO Mol Med.* 2021 13(6):e14045.
- Lim J. Destabilizing single chain major histocompatibility complex class I protein for repurposed enterokinase proteolysis. *Sci Rep.* 2020 10(1):14897.

Highlights

The Suspension Mass Cytometry workflow



The Imaging Mass Cytometry workflow



Simplifying MHC-I Peptide Discovery

