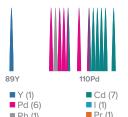


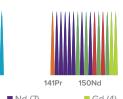
THE CYTOF ADVANTAGE

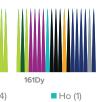
Reasons to take your high-dimensional research beyond the limits of fluorescence

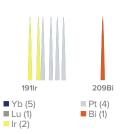
Precision data with discrete signals

Not impacted by spectral overlapping of fluorochromes and tissue autofluorescence



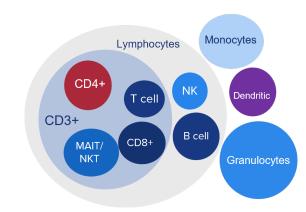






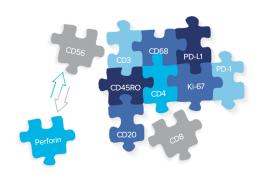
Capture rare or unexpected cell populations

Unbiased, high-dimensional profiling of 40-plus markers to uncover diverse immune subpopulations



Easy panel design to complete experiments faster

Large number of available antibodies without overlap simplifies panel design and expansion

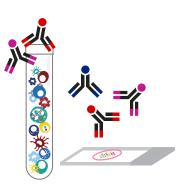


Start with ready-to-go panels and easily swap markers in and out



Minimal sample required, saving on limited clinical research material

Simultaneous staining and detection from a single tube or tissue scan, without multiple staining controls or time-consuming cyclic protocols



3

Reproducible and comparable

Stained samples can be frozen, stored and shipped to support longitudinal studies and multi-site workflows





Trusted by researchers

The leading technology for high-parameter immune research



>2,000 publications



>200 clinical trials

Cytometry by time-of-flight (CyTOF® technology)

Applies purified heavy-metal labels, not normally found in biological systems, instead of fluorophores



Risks of fluorescence

for high-parameter studies



Missed cell populations or false positives



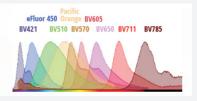
More iterations required in panel design



Reduced sensitivity where fluorescence overlap occurs



Higher resource use to compensate for spectral overlap



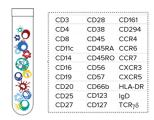
From sample collection to high-dimensional insights in 3 days*

Whether you are analyzing suspension or tissue samples, time-of-flight (TOF) technology combined with Maxpar® reagents enables a streamlined end-to-end workflow to complete high-parameter experiments faster than fluorescence-based detection.

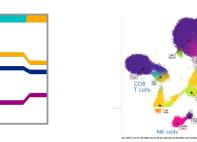
Flow cytometry

Get started with the validated Maxpar® Direct™ Immune Profiling Assay™

1 tube 30 markers (<300 µL of whole blood)



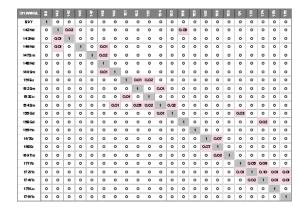
5-minute analysis

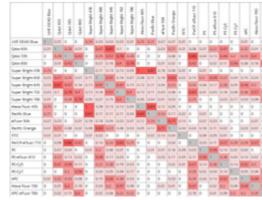


37 cell populations

Surface profiles
Cell proliferation
Apoptosis
Metabolism
Phosphoproteins
Cytokine production
Transcription factors

Minimal signal overlap





The CyTOF flow cytometry image (far left) shows minimal spillover between metal channels when compared with the same panel from a competitor spectral flow cytometer (left).

Imaging Mass Cytometry

Get started with our Maxpar IMC[™] Cell Segmentation Kits and ready-to-go high-plex panels

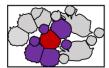
Simultaneous staining

One-step detection

High-plex data in minutes

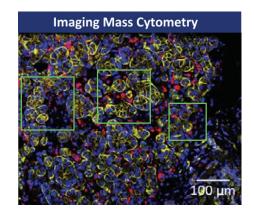


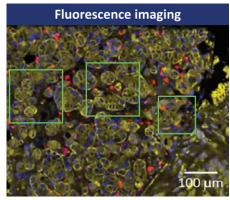




Tissue architecture
Protein modifications
Signaling pathway activation
Cell injury states
Cell proliferation
Transcriptional signatures

Clear spatial imaging





The Imaging Mass Cytometry™ image (far left) shows many well-defined red signals from CD68 that are indistinct or missing from the fluorescence image (left).

Quantify and visualize 40-plus markers in a single run. Without compromise.

*After panel and image analysis optimization

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