

# CHIPCYTOMETRY™ VALIDATED TARGETS

## Highlights

- ChipCytometry is a powerful platform for spatially resolved multiplexing of dozens of protein biomarkers.
- ChipCytometry offers the flexibility to tailor assays to meet individual project needs.
- Design custom panels from our list of ready-to-use, fully validated target markers.
- Custom validation is available for additional biomarkers upon request.

## About ChipCytometry

ChipCytometry is a powerful platform for spatially resolved multiplexing that enables quantitative measurement of dozens of protein biomarkers on the same sample. High-resolution, high dynamic range imaging allows for quantitative single cell analysis of high- and low-expressing proteins, while maintaining critical information about cell morphology and tissue architecture.

Samples are loaded onto ZellSafe™ chips to preserve sample integrity during serial delivery of reagents. A cocktail of up five fluorescently conjugated antibodies is delivered in successive rounds of staining, imaging, and photobleaching. Standard FCS files are generated from multichannel images, enabling identification of cellular phenotypes via hierarchical gating.

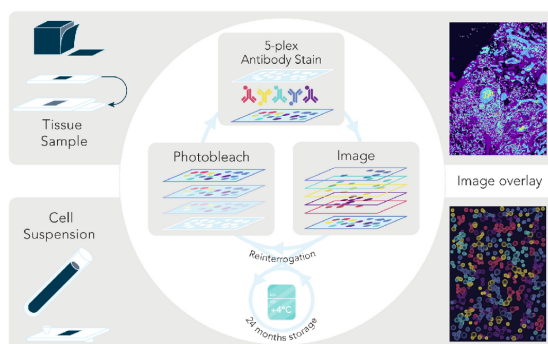


Figure 1. Overview of the ChipCytometry platform for spatially resolved multiplexing of protein biomarkers.

## Target Validation

ChipCytometry offers the flexibility to tailor assays to meet individual project needs. Design custom panels from our list of ready-to-use, fully validated target markers. ChipCytometry offers a number of pre-validated targets for immunology, oncology, and neurobiology applications. Custom validation is available for additional biomarkers upon request.

Fully validated fluorescently conjugated antibodies are foundational to the analysis of protein targets. Each antibody is rigorously tested for precise and consistent performance and has been optimized for a specific cell or tissue type. All antibodies are commercially available to avoid tricky, proprietary conjugation chemistry.

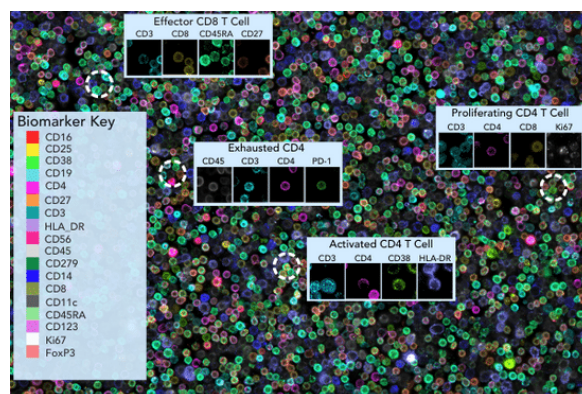
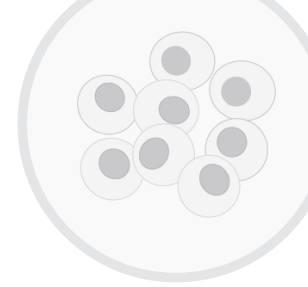


Figure 2. Immune phenotyping of human cell suspension using 18 pre-validated biomarkers.

## Three Key Features

- ChipCytometry uses fluorescently conjugated antibodies for spatially resolved multiplexing of dozens of protein biomarkers.
- High-resolution, high dynamic range imaging enables quantitative single cell analysis of high- and low-expressing proteins.
- ChipCytometry works with a variety of sample types including tissue sections and cell suspensions.

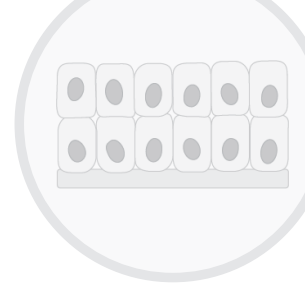


# NON-HUMAN PRIMATE CELL SUSPENSION

## Validated Target List

A list of targets corresponding to fully validated fluorescently conjugated antibodies for use in ChipCytometry assays. Antibodies have been tested in non-human primate cell suspensions for precise and consistent performance. Select from our pre-validated target list to design custom panels specific to your project needs. Validation of custom biomarkers is available upon request.

CD3	CD20	CD56	CD278	Interferon gamma
CD4	CD27	CD69	CD279	Ki-67
CD8	CD39	CD80	FoxP3	LAMP-1
CD11b	CD40	CD86	Granzyme B	Light chain lambda
CD11c	CD45	CD95	HLA-DR	Perforin
CD14	CD45RO	CD123	IL2	TNF alpha
CD16	CD49d	CD161	Integrin beta 7	



# NON-HUMAN PRIMATE FRESH FROZEN TISSUE

## Validated Target List

A list of targets corresponding to fully validated fluorescently conjugated antibodies for use in ChipCytometry assays. Antibodies have been tested in non-human primate fresh frozen (FF) tissue for precise and consistent performance. Select from our pre-validated target list to design custom panels specific to your project needs. Validation of custom biomarkers is available upon request.

Biotin	CD16	CD56	IgG
CD3	CD20	CD159a	IgM
CD14	CD45	IgA	