



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 to 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.

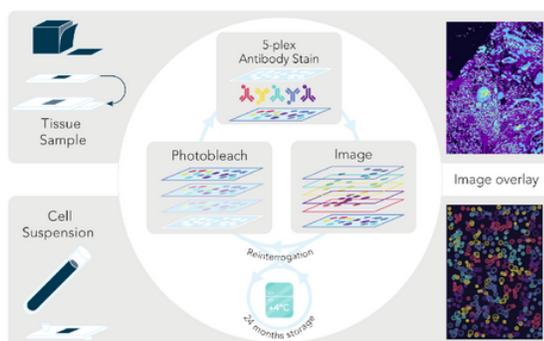


Figure 1. Overview of the ChipCytometry platform for spatially resolved multiplexing of protein biomarkers.

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.

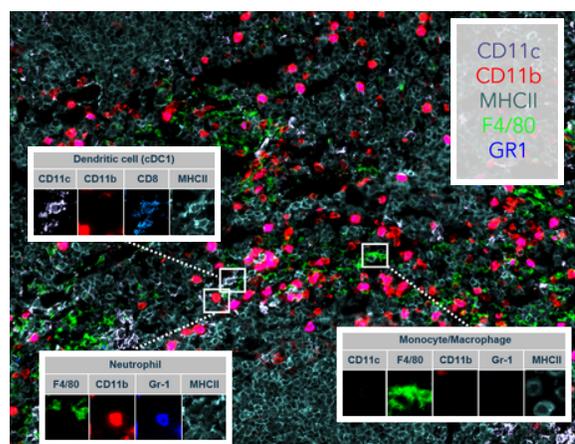
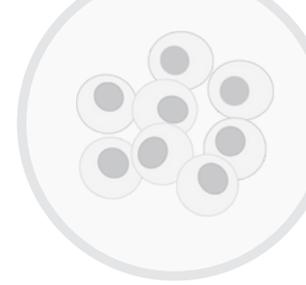


Figure 2. Immune phenotyping of mouse fresh frozen tissue using 5 pre-validated biomarkers.

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



MOUSE 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 mouse 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	CD45	CD137	CD317	MHC II
CD4	CD45R (B220)	CD154	Endoglin	NK1.1
CD5	CD62L	CD163	F4/80	PD-1
CD8a	CD69	CD169	FoxP3	PD-L1
CD11b	CD86	CD201	IL10	T-bet
CD11c	CD103	CD202b	IL12	TCR2
CD19	CD115	CD204	IL17A	TNF alpha
CD25	CD117	CD206	Interferon gamma	UCP1
CD29	CD124 (IL4RA)	CD284	Ly6C	
CD34	CD135	CD301	Ly6G (GR1)	



MOUSE 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 mouse fresh frozen tissue (FF) 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.

CD3e	CD25	CD68	F4/80	MHC II
CD4	CD27	CD69	FAP	NK1.1
CD5	CD31	CD103	FoxP3	Pan-cytokeratin
CD8a	CD44	CD140b	GFAP	PD-1
CD11b	CD45	CD206	Ki-67	PD-L1
CD11c	CD45R (B220)	Desmin	Ly6C	SMA
CD19	CD64	EpCAM	Ly6G (GR1)	VEGFR-2



MOUSE FFPE 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 mouse formalin-fixed paraffin-embedded (FFPE) 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.

CD3	CD31	F4/80	Ly6G
CD4	CD45	FoxP3	PD-1
CD8	B220	Ki-67	PD-L1
CD11c	Cleaved CASP-3	Ly6C	