



CyTOF[™] Mass Cytometry

MAXPAR DIRECT IMMUNE PROFILING ASSAY AND EXPANSION PANELS

Capture immune complexities – from a single assay

Comprehensive immunophenotyping is critical to better understand novel disease drivers and design better therapies. To address obstacles around designing large panels and complexities in sample-handling requirements, researchers need off-the-shelf assays that maximize insights and data quality.

The **Maxpar[™] Direct Immune Profiling Assay** with CyTOF[™] technology addresses common flow cytometry challenges, using a dry-format, ready-to-go, validated 30-marker antibody panel to identify major circulating immune cell types in human whole blood or PBMC samples.



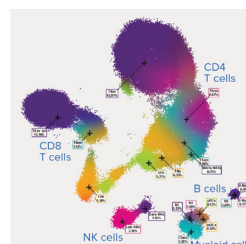
Now available
in two sizes, a 25-test kit
and 5-test kit format

Robust and standardized immune profiling

A simple single-tube workflow with automated analysis ensures high reproducibility of multiparameter data.



CD3	CD28	CD161
CD4	CD38	CD294
CD8	CD45	CCR4
CD11c	CD45RA	CCR6
CD14	CD45RO	CCR7
CD16	CD56	CXCR3
CD19	CD57	CXCR5
CD20	CD66b	HLA-DR
CD25	CD123	IgD
CD27	CD127	TCRγδ



- Surface profiles
- Cell proliferation
- Cell exhaustion
- Apoptosis
- Metabolism
- Phosphoproteins
- Cytokine production
- Transcription factors

1 single-tube assay

30-plus markers

5-minute analysis

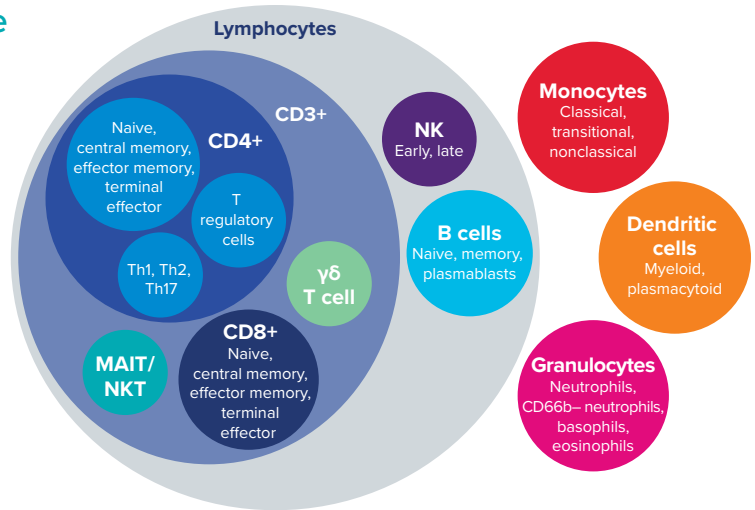
9 Expansion Panels (optional)

Identify novel **disease drivers**,
design **better therapies**

Immune cell profiling without compromise

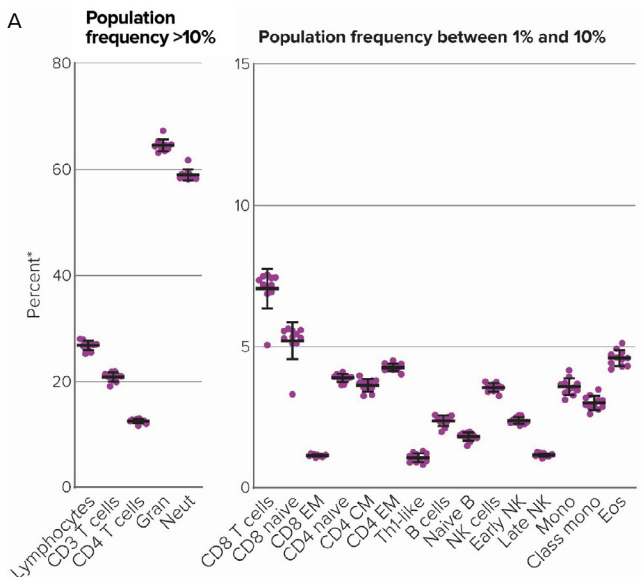
The Maxpar Direct Immune Profiling Assay and Maxpar Pathsetter software enable quantification of 37 immune cell populations.

For deeper profiling of signaling and functional markers, simply add one of the Maxpar Direct Expansion Panels.

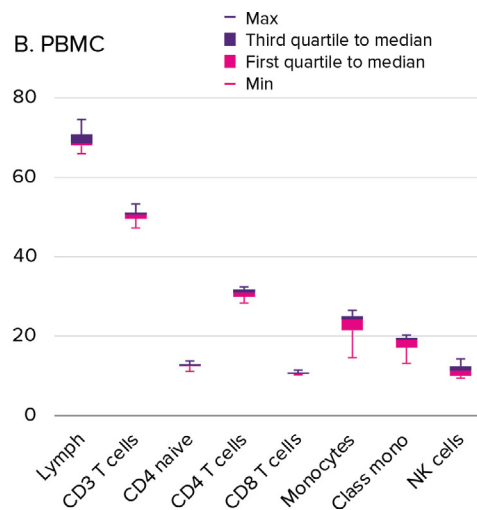


Proven reproducibility

Lot-to-lot and site-to-site



* Of single viable cells



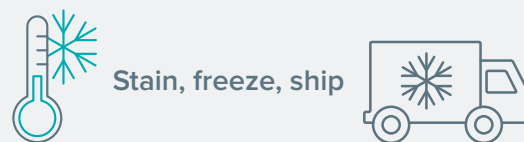
Standardized sample collection

Maintain sample integrity between collection and processing by stabilizing whole blood with preservation reagents, even at room temperature.



See poster data

Multi-site and longitudinal studies

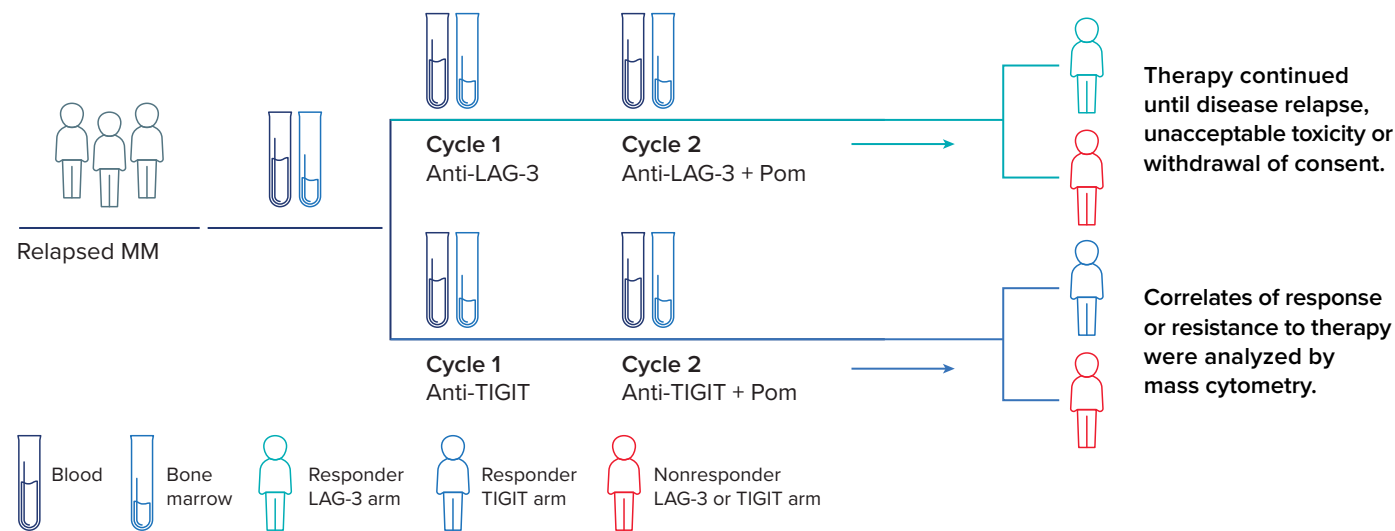


Unlike fluorescent tags that are light-sensitive, CyTOF metal-labeled antibodies can withstand harsh staining protocols and storage conditions, providing **greater stability** when storing, freezing or shipping samples.

CASE STUDIES

Identifying pathway-specific correlates of clinical response to immune checkpoint blockade: a prospective longitudinal study

The Maxpar Direct Immune Profiling Assay was customized with six additional antibodies to identify immune checkpoint markers in biospecimens from patients with relapsed multiple myeloma. Durable responses to both TIGIT and LAG-3 blockade were found to correlate with pathway-specific variables.

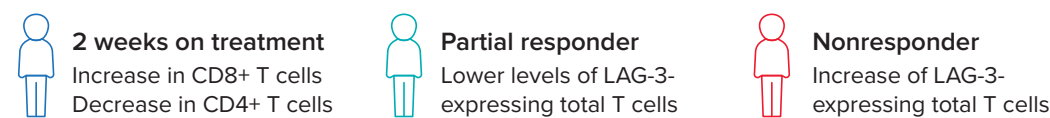


Blood and bone marrow specimens were shipped overnight to a central laboratory for analysis by mass cytometry.

Richard, S. et al. *Nature Cancer* (2024) (NCT04150965)

Uncovering predictive biomarkers of response in the peripheral blood immune signature: a multi-cohort, single-center trial

The routine and reproducible Maxpar Direct Immune Profiling Assay enabled rapid immunophenotyping in subjects with neuroendocrine neoplasms treated with anti-PD-1 blockade.



Changes in circulating T cells that correlated with clinical response were identified using a customized version of the immune profiling assay.

Owen, D.H. et al. *Clinical Cancer Research* (2023) (NCT03728361)

Highlights:

- Reduced sample usage (300 µL)
- Streamlined sample processing
- Minimized experimental variability
- Automated and unbiased analysis

Highlights:

- Simple and standardized workflow
- Fast processing time
- Sample staining and storage capabilities
- Accessible and easy-to-use data

Immunophenotyping
simplified



Ordering information

1. Start with a 30-marker backbone panel.

Maxpar Direct Immune Profiling Assay					
CD45	CD8a	CD161	CD183/CXCR3	TCRγδ	CD20
CD196/CCR6	CD11c	CD194/CCR4	CD185/CXCR5	CD294	CD66b
CD123/IR-3R	CD16	CD25	CD28	CD197/CCR7	HLA-DR
CD19	CD45RO	CD27	CD38	CD14	IgD
CD4	CD45RA	CD57	CD56	CD3	CD127

Product Name	Part Number
Maxpar Direct Immune Profiling Assay, 30 Marker – 25 Tests	201334
Maxpar Direct Immune Profiling Assay, 30 Marker – 5 Tests	201349
Maxpar Pathsetter v3.0	401019

2. Add optional Maxpar Direct Expansion Panels.

	Myeloid and B Cell Subsets	T Cell Activation	T Cell Co-Stimulation and Exhaustion	T Follicular Helper and Stem Cell	T and NK Cell Exhaustion	Myeloid and Lymphoid Activation	NK Cell Activation
	CD181	CD107a	OX40	CD11a	TIM-3	IL-6	CD181
	CD22	IL-2	TIGIT	TIM-3	CD69	CD69	NKp30
	CD80	CD69	CD69	CD95 (FAS)	LAG-3	TNFα	NKp46
	CD163	TNFα	PD-1	PD-1	NKG2A	CD40	PD-1
	CD33	IFNγ	TIM-3	ICOS	PD-1	GM-CSF	NKG2A
	PD-1	IL-4	ICOS	CXCR4	TIGIT	CD80	ICOS
	CD11b	CTLA-4	CD135/4-1BB	TIGIT	CD107a	IL-10	TIGIT
	CD40	IL-10	IL-2	CD107a	IL-2	CD33	CD107a
	CD24	IL-17A	TNFα	IL-2	TNFα	PD-1	IL-2
	Mac-1	Perforin	IFNγ	TNFα	IFNγ	IL-1β	TNFα
		Granzyme B	Perforin	IFNγ	Perforin		IFNγ
			Granzyme B	Perforin	Granzyme B		Perforin
				Granzyme B			Granzyme B
Part Number	201402, 201403	201409	201407, 201408	201406, 201408	201405, 201408	201410	201404, 201408

Standard BioTools™ Service Lab

Simply ship your samples and get results within 72 hours of sample receipt.



Learn more:

standardbio.com/immuneprofiling

FLDM-400246 Rev 14 032025

Maxpar Direct Immune Profiling System Flyer

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