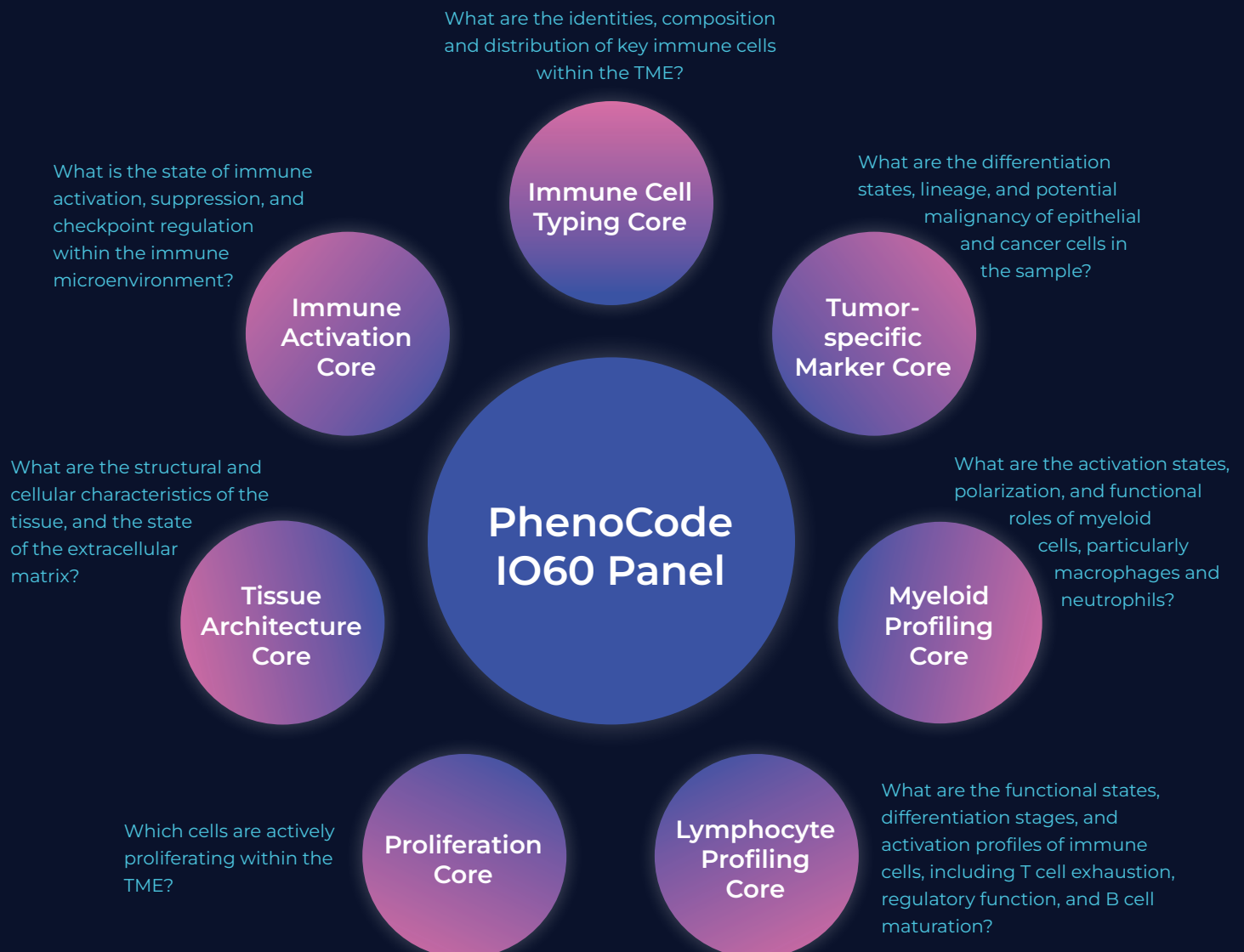




DESIGNED FOR YOUR NEXT **IMMUNO-ONCOLOGY BREAKTHROUGH**

A NEW STANDARD FOR IMMUNO-ONCOLOGY RESEARCH HAS ARRIVED

Whether you're looking to unlock the intricacies of the tumor microenvironment (TME), shed light on checkpoint therapy mechanisms, or drive breakthroughs in immunotherapy research, the PhenoCode™ Discovery IO60 Human Protein Panel is a comprehensive, fast and scalable solution for ultrahigh-plex immune phenotyping—setting a new standard for immuno-oncology (IO) research.



EXPERIENCE THE FASTEST ULTRAHIGH-PLEX PANEL FOR IO RESEARCH

Why Choose the PhenoCode IO60 Panel?

Curated from insights across 1,500+ publications and expertly designed to navigate the complexities of the IO landscape, the PhenoCode IO60 panel is the fastest ultrahigh-plex panel for IO research. When paired with the cutting-edge **PhenoCycler®-Fusion 2.0**, you can analyze 60 markers simultaneously and process over 16 samples per week.



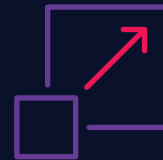
COMPREHENSIVE

- 90% major immune cell types
- 85% key immune checkpoints
- 85% known immunotherapy targets



FASTEST

- Fully optimized
- Leverage PhenoCycler-Fusion 2.0 speed
- 16+ samples/week



SCALABLE

- For multiple cancer types
- Covers the 9 key pathways
- Scalable to 100-plex

GET YOUR COMPREHENSIVE IO INSIGHTS WITH THE IO60 PANEL

The PhenoCode IO60 Panel redefines IO research by offering a panoramic view of cancer biology, covering 90% of major immune cell types and 85% of key immune checkpoints. With 85% of known immunotherapy targets included, IO60 enables you to analyze immune cell diversity, assess checkpoint pathways, and understand immune evasion mechanisms—all critical factors in developing precision therapies and advancing immunotherapy.

Designed for Your Next IO Breakthrough

Understand
Tumor-Immune
Interactions

Tailor Precision
Medicine
Approaches

Accelerate
Immunotherapy
Research

90%

Major Immune
Cell Types

85%

Key Checkpoint
Inhibitors

85%

Known
Immunotherapy
Targets

Expose Tumors
to Immune
Detection by
Targeting Evasion
Mechanisms

Develop and
Refine Checkpoint
Inhibitors Therapies

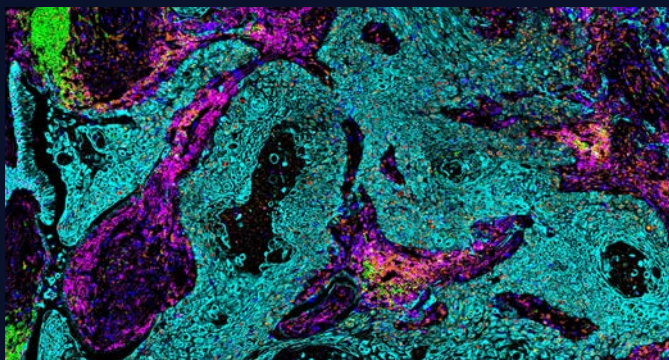
Drive Therapies to
Boost Anti-Tumor
Responses and
Suppress Pro-Tumor
Activity

SPEED UP YOUR SPATIAL DISCOVERIES

Fully Optimized

Achieve in days what once took weeks

Ready-to-use and off-the-shelf, the IO60 Panel is **fully optimized** to save you valuable time in assay development.



High Speed

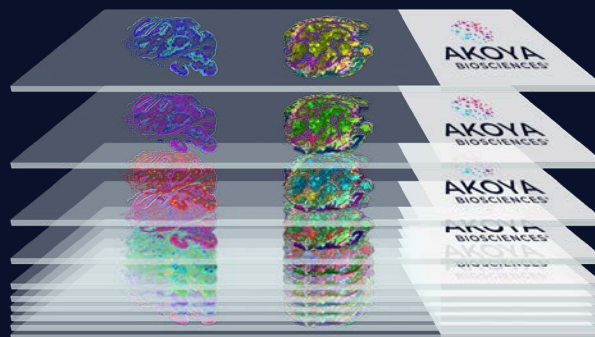
Drive breakthroughs with faster, smarter decisions

The IO60 Panel is designed for the PhenoCycler-Fusion 2.0, which features **automated fluidics and patented height-sensing optics** to enable rapid, comprehensive tumor phenotyping.

High Throughput

Stay ahead by analyzing more samples, faster

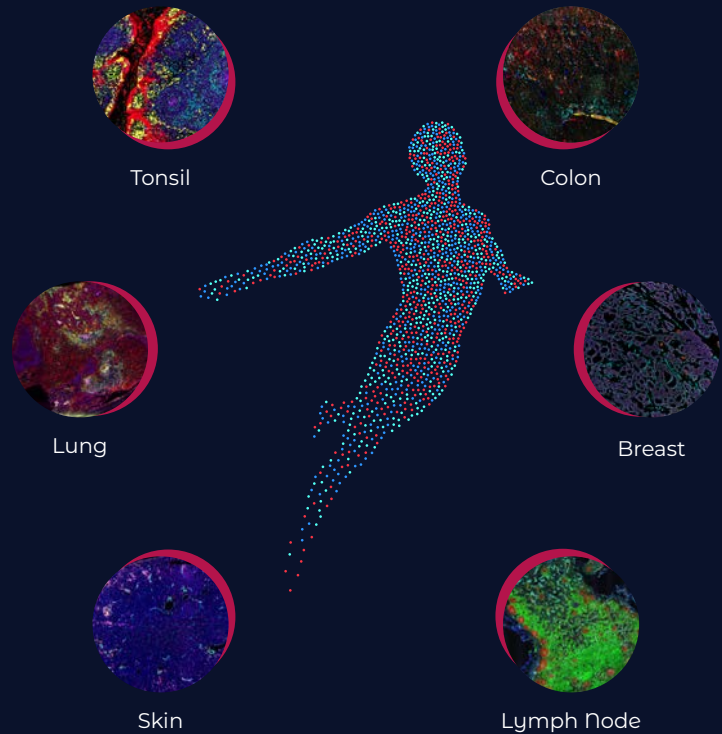
With the IO60 Panel on the PhenoCycler-Fusion 2.0, process **16+ samples per week at 60-plex** using multi-slide automation and parallel processing to keep your research on the cutting edge.



SCALE UP YOUR IO RESEARCH

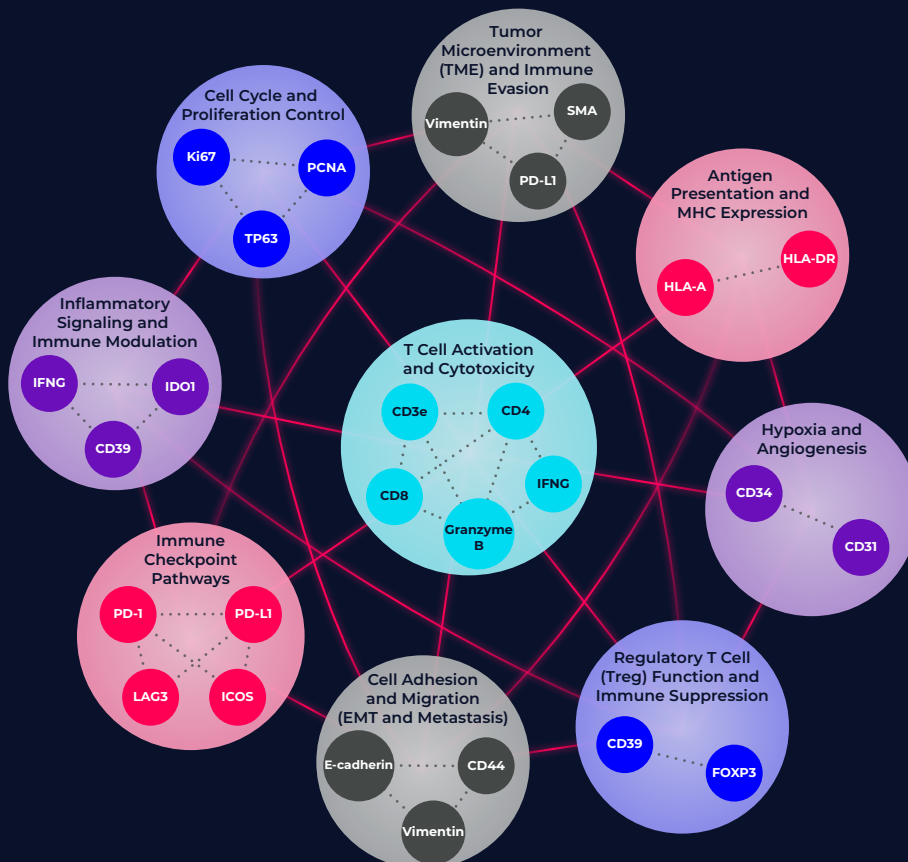
Make impactful discoveries across virtually any cancer type

From solid tumors like lung and colon cancer to blood cancers like leukemia, the IO60 Panel provides powerful insights across **10+ major cancer types**.



Understand each pathway across every step of cancer progression

From immune checkpoints and T cell activation to antigen presentation, TME dynamics and cell proliferation, the IO60 panel **targets 9 critical pathways** across cancer immunity cycle and more.



A SIMPLIFIED END-TO-END WORKFLOW FOR ULTRAHIGH- PLEX SPATIAL PHENOTYPING

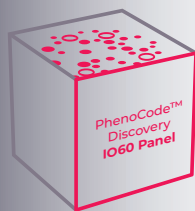
PhenoCode
IO60 Panel

Automated Cycling
and Imaging

Image
Analysis

Multimodal
Phenotyping

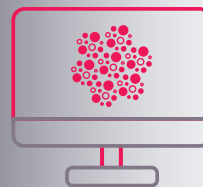
STAIN



IMAGE



ANALYZE



INTEGRATE



- Fully optimized
- 60-plex for deep insights
- Based on molecular barcoding chemistry — scalable, gentle & straightforward

- Iterative cycling with high-speed imaging
- Rapid fluidics, isothermal cycling for tissue integrity
- Multi-slide automation with parallel processing

- Manageable high-res data files
- Seamless multimodal data integration
- Compatible with all major analysis solutions

- Fully compatible with major assay types for diverse analytes, including RNA, DNA and more

IO60 Panel Markers

Immune Cell Typing

CD68	HLA-A
CD4	HLA-DR
CD44	CD14
CD45RO	CD20
CD45	CD3e
CD11c	CD56
CD8	

Immune Activation

IFNG	PD-L1
IDO1	VISTA
PD-1	LAG3
ICOS	

Tissue Architecture

CD31	Beta-actin
E-cadherin	Podoplanin
SMA	Collagen IV
Vimentin	Caveolin
CD34	B-Catenin1

Lymphocyte Profiling

CD107	Granzyme B
CD57	TOX
FOXP3	TCF-1
CD21	CD79a
CD38	CD39

Myeloid Profiling

iNOS	CD11b
CD66	CD206
MPO	CD209
CD163	

Tumor-specific Markers

Keratin 14	Bcl-2
SOX2	EpCAM
PanCK	GP100
Keratin 8/18	TP63
ER	Keratin 5

Proliferation

Histone H3 Phospho (Ser28)
PCNA
Ki67