Invicro

Phenocycler™ Panel Offerings

Invicro offers both preconfigured and customizable Akoya Biosciences Phenocycler™ assays which provide a comprehensive, highly multiplexed solution for spatially resolved biomarker analysis of tissue samples:

Immune Profiling Modules for Human FFPE
Immuno-Oncology, Autoimmune, Inflammation

Core Panel (15-plex)	
Marker	**Key Phenotype**
CD4	Helper T cells
CD68	Macrophages
CD20	B cells
CD11c	Dendritic cells
CD8	Cytotoxic T cells
HLA-DR	APCs (MHC II)
CD3e	T cells
CD44	Activated T cells
CD45	Immune cells
HLA-A	MHC I
CD14	Monocytes
Ki67	Proliferating cells
Pan-CK	Tumor cells
CD57	NK cells
CD45RO	Memory T cells

Advanced Add-On (19-plex)	
Marker	**Key Phenotype**
CD163	M2 Macrophages
CD19	B cells, FDCs
FoxP3	Regulatory T cells
Granzyme B	Activated T cells/NK cells
CD11b	Myeloid cells
CD21	Dendritic cells, mature B cells, FDCs
E-cadherin	Epithelial cells
SMA	Vascular, fibroblasts, smooth muscle
Vimentin	Cyto-structures
Collagen IV	Extracellular matrix
CD31	Vascular structures
CD34	Vascular structures
Podoplanin	Lymphatics
PD-1	Checkpoint receptor
LAG-3	Checkpoint receptor
TIM3	Checkpoint receptor
ICOS	Checkpoint receptor
PD-L1	Checkpoint ligand
IDO1	Immune inhibitor

Neuroscience Modules for Human FFPE
Neuroinflammation

Core Panel (15-plex)	
Marker	**Key Phenotype**
NeuN	Post-mitotic neurons
MAP-2	Neurons (dendrites)
H2A.X	Neurons
Neurofilament	Neurons
GFAP	Astrocytes
Iba-1	Microglia
Olig-2	Oligodendrocytes
Vimentin	Astrocytes, NSCs
CD31	Vascular
Collagen IV	Vascular
Claudin-5	Vascular
CD34	Vascular
PSD-95	Synaptic
Synaptophysin	Synaptic
SMA	Vascular

Advanced Add-On (19-plex)	
Marker	**Key Phenotype**
TMEM119	Microglia
AQP4	Blood-brain barrier
CD68	Microglia, M1 microglia
CD11c	Microglia
CD163	M2 microglia
PCNA	Proliferating cells
Galectin-3	Microglial activation
ApoE	Astrocytes/Microglia
ß-Amyloid	ß-amyloid peptide (Aß)
iNOS	M1 microglia
CD8	Cytotoxic T cells
HLA-DR	APCs (MHC II)
CD3e	T cells
CD44	Activated T cells
CD45	Immune cells
CD11b	Myeloid cells
CD4	Helper T cells
CD14	Monocytes
HLA-A	MHC I

Immune Profiling Modules for Mouse Fresh Frozen
Immuno-Oncology, TLS, Autoimmune, Inflammation

Core Mouse Model FF (25-plex)			
Marker	**Key Phenotype**	**Marker**	**Key Phenotype**
CD90	HSCs, T cells, fibroblasts, vascular endothelial structures	**Ly6g**	Neutrophils
CD31	Vascular structures	**CD38**	NK cells, monocytes, activated B cells/T cells
TCR	T cells	**CD21/35**	Mature B cells, FDCs
Ter119	Erythrocytes	**CD71**	Bone marrow blast cells
CD44	Activated T cells	**IgD**	Naive B-cells
CD45	Immune cells	**CD4**	Helper T cells
CD19	B-cells, FDCs	**CD11c**	Dendritic cells
CD169	Macrophages	**CD24**	Dendritic cells
CD45R/B220	B Cells	**CD8a**	Cytotoxic T cells
MHCII	APCs	**CD49f**	Endothelial cells
CD3	T cells	**CD11b**	Myeloid cells
IgM	Immature B cells	**Ki67**	Proliferating cells
CD5	T cells		

Custom Panels

In addition to our off-the-shelf panels, Invicro offers services for the development of custom panels with the ability to multiplex 100+ biomarkers.

PhenoCycler™-Fusion System