

INTRODUCING THE HUMAN FFPE NEUROBIOLOGY PANEL

Designed for PhenoCycler®-Fusion

Whether you are investigating neurodegenerative disease, neuroinflammation, or neuroplasticity, the Human FFPE Neurobiology Panel empowers you to resolve key molecular and cellular interactions in the brain spatially.

KEY FEATURES

- Deep Cellular Characterization — Identify and distinguish neuronal subtypes, glial cells, and vascular components with a well-defined set of 42 biomarkers.
- Disease-Specific Insights — Detect neurodegenerative protein aggregates associated with Alzheimer's disease and Parkinson's disease, track inflammation-driven pathology and assess blood-brain barrier integrity disruptions.
- Designed for the Fastest Spatial Biology Solution on the Market — Unlock rapid, high-resolution insights with a fully optimized, ready-to-use panel, enabling streamlined workflows for spatial proteomics in human neurobiology research.

WHY CHOOSE THE HUMAN FFPE NEUROBIOLOGY PANEL?



FAST

Designed for the fastest spatial biology solution



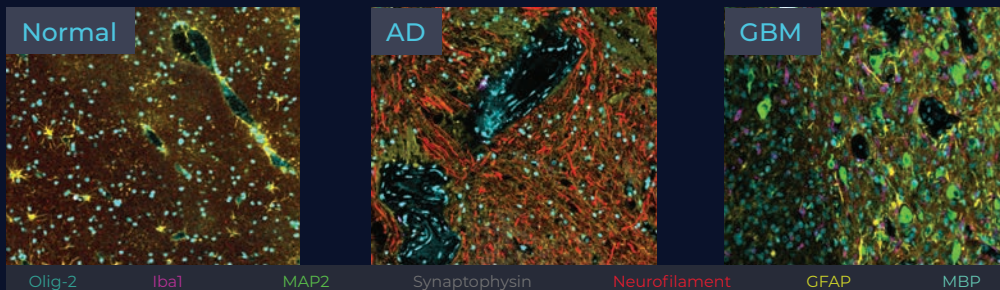
FULLY-OPTIMIZED

Pre-validated, ready-to-use panel for easy implementation



SCALABLE

Add additional markers of your choice using custom barcodes



Multiplex image of normal brain, the brain of Alzheimer's Disease (AD) and Glioblastoma (GBM), showing the expression of seven markers: Olig-2, Iba1, MAP2, Synaptophysin, Neurofilament, GFAP, and MBP.

Neuronal Cell Type Markers	
Mature Neurons	NeuN MAP2 Neurofilament Synaptophysin
GABAergic Neurons	GABA
Cholinergic Neurons	CHAT
Serotonergic Neurons	Serotonin

Neurodegenerative Disease Markers	
Alzheimer's Disease	Amyloid-beta APOE Tau (phospho T181) Tau (phospho T231) Tau (phospho S396) Tau (phospho T205)
Parkinson's Disease & Synucleinopathies	Alpha-synuclein
General Neurodegeneration	H2A.X

Neuroinflammation & Immune Response	
Microglia	TMEM119
Activated Microglia & Macrophages	Iba1 CD68 Mac 2/Galectin-3
T Cell Infiltration	CD3e CD4 CD8
General Immune Activation	CD45 CD44 HLA-DR HLA-A iNOS CD163 CD14
Astrocyte-Associated Inflammation	GFAP

Neuroplasticity & Cellular Remodeling	
Proliferation & Neurogenesis	PCNA Ki67
Astrocyte & Structural Plasticity	S100B Vimentin
Oligodendrocytes	Olig-2 MBP

Blood-Brain Barrier Integrity & Vascular Components	
Endothelial Cells & Vascular Structure	Claudin-5 CD31 CD34 Collagen IV
Pericytes & Smooth Muscle Cells	SMA
Astrocyte-Endothelial Interactions	AQP4

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