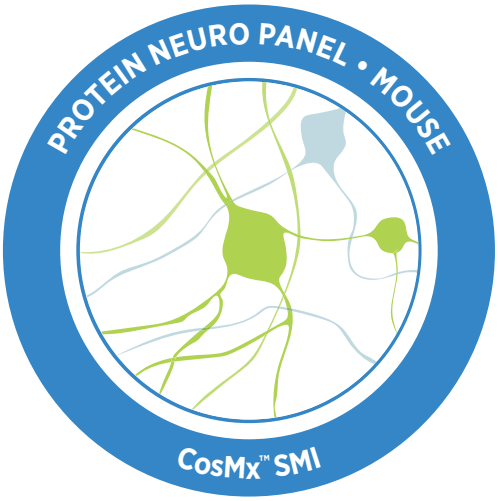
CosMx™ Mouse Neuroscience Protein Panel

Capture the Complexity of the Brain

The CosMx™ Mouse Neuroscience Protein Panel enables high-plex spatial analysis of up to 68 proteins from a single FFPE slide at subcellular resolution, and is designed to provide robust cell typing as well as information about key post-translationally modified proteins and extracellular protein targets. Capture the complexity of Alzheimer's brain using the panel's comprehensive Neural Cell Typing and Alzheimer's Disease content.



Product Highlights

- Analyze 64 targets plus 4 dedicated cell segmentation markers on a single slide
- Leverage best in class cell segmentation algorithms for accurate single cell proteomic analysis
- Capture information about key post-translational modification (PTM) and extracellular matrix (ECM) proteins
- Customize with up to 8 additional protein targets of your choice

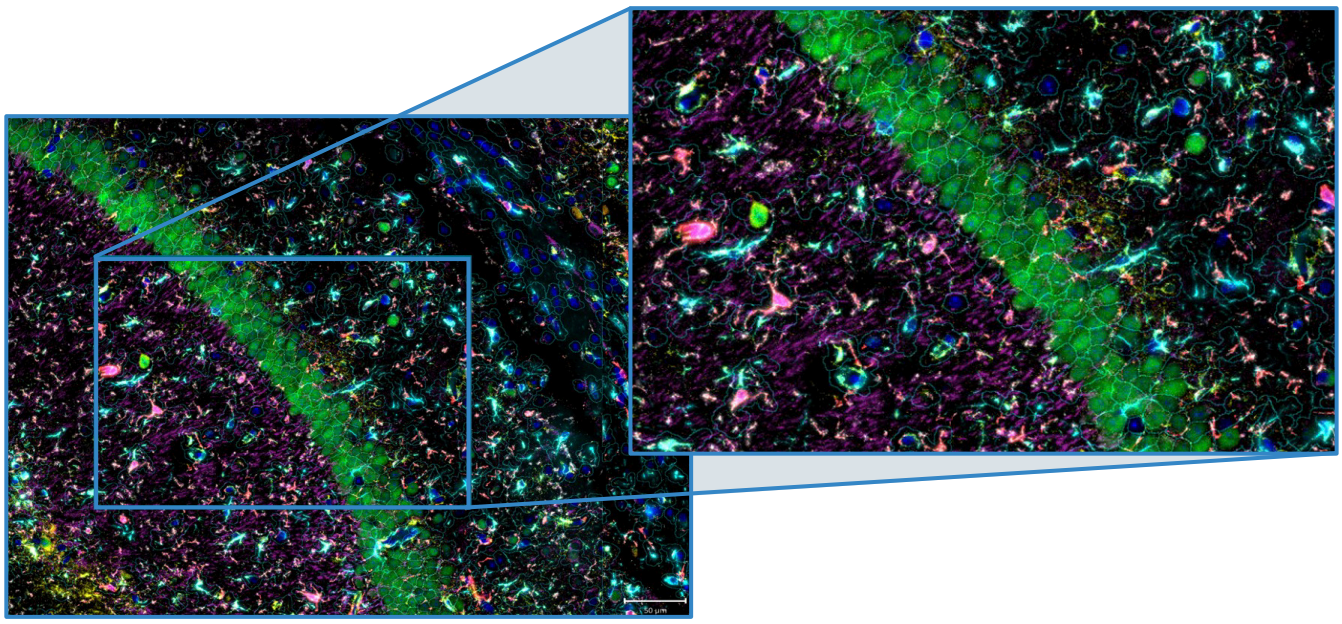


Figure 1. The CosMx™ Mouse Neuroscience Protein Panel leverages best in class cell segmentation algorithms for advanced cell segmentation and cell typing.

Content Curated Specific for Your Biology

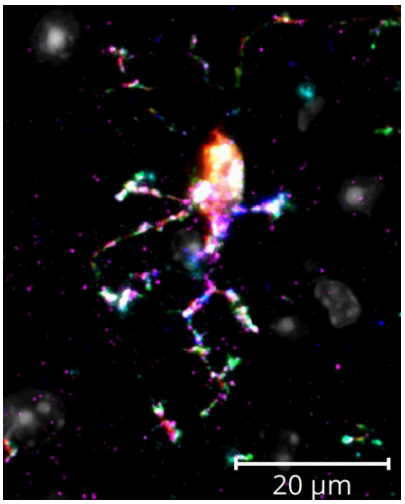
Designed to profile 64 targets with spatial and subcellular resolution. The CosMx™ Mouse Neuroscience Panel contains key targets to:

Establish a framework for your discoveries:

- Identify spatially-dependent protein expression patterns
- Characterize the spatial organization of immune infiltrates
- Utilize automated, semi-supervised cell typing to classify a wide variety of cell types

Answer new questions:

- Which biomarkers are relevant to your disease of interest?
- What spatial correlations can you observe between neighboring cells?
- Which cellular compartments are your proteins co-localizing within?



Panel Content

Neuropathy	
Amyloid Precursor Protein	NRGN
APOE	Phospho-Tau (S199)
BACE1	Phospho-Tau (S214)
Calbindin	Phospho-Tau (S396)
gamma-H2AX	Phospho-Tau (S404)
HIF1A	Phospho-Tau (T231)
Human Amyloid Precursor Protein	PSEN1
Human Amyloid-Beta 1-42	SOD1
Human APOE	SORL1
Human Tau	Tau
IDE	Tdp-43
Neprilysin	Ubiquitin

Immune Response
ARG1
C3
Cathepsin B
CD11b
CD11c
cJun
HMGB1
MHC II
MX1
Tyrobp

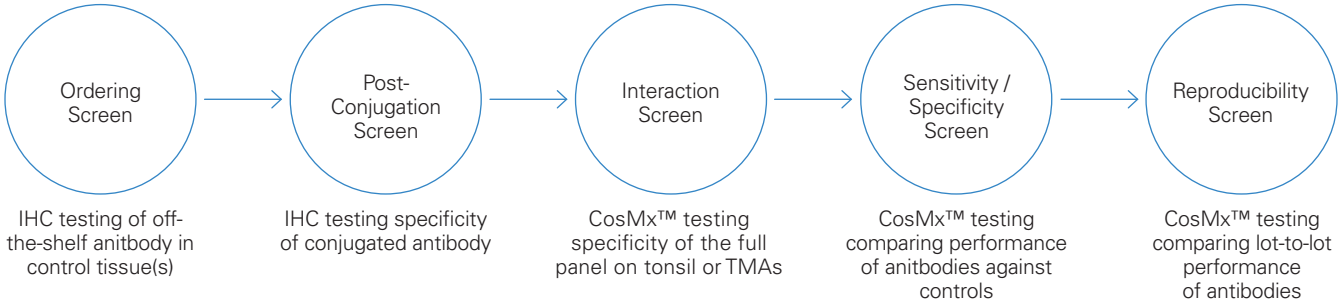
Neural, Glial, and Immune Cell Typing	
5-HTT	MAP2
Aldh1l1	Myelin basic protein
Beta III Tubulin	Nestin
CD31	Neurofilament light
CD45	P2ry12
CD68	Pax6
ChAT	PDGFRB
Doublecortin	S100A10
EAAT1-GLAST	S100B
FoxJ1	SOX10
GAD67	TMEM119
Hes5	Tyrosine Hydroxylase
Isl1	VGlut2
Laminin	Vimentin

Controls
Rb IgG
Rt IgG2a

Accompanying kits are available for cell segmentation

Validated Assays Ready for Use

All CosMx™ Protein Assays undergo extensive antibody validation to ensure high quality data. This validation process ensures that every antibody has appropriate specificity, sensitivity and overall performance.



Ordering Information

Protein Assays arrive ready-to-use and generally ship within 24 hours following purchase.

Product	Product Description	Quantity	Catalog Number
CosMx™ Mouse Neural Cell Typing & Alz Path Panel (Protein, 64-Plex)	CosMx™ Mouse Neural Cell Typing & Alzheimers Pathology 64-plex Protein Panel (4 slide volume)	4 slides	CMX-M-Neuro-64P-P
CosMx™ Mouse Neuroscience Cell Segmentation Ch1/2 (Protein) Kit	CosMx™ Mouse Neuroscience Cell Segmentation Kit for Protein assays (4 slide). Includes CosMx DAPI Nuclear Stain for SMI Preview Scan Ch1 and CosMx Mouse S6 Marker for SMI Preview Scan Ch2.	4 slides	CMX-M-NCS-MM12-P
CosMx™ Mouse Neuroscience Segmentation Ch3/4 (Protein) Kit	CosMx™ Mouse Neuroscience Cell Segmentation Kit for Protein assays (4 slide). Includes the CosMx Mouse GFAP Marker for SMI Preview scan Ch3 and CosMx Mouse IBA1 for SMI Preview scan Ch4.	4 slides	CMX-M-NCS-MM34-P
CosMx™ Mouse NeuN A La Carte Marker Ch5 (Protein) Kit	CosMx™ Mouse NeuN A La Carte Marker for Protein assays, SMI Preview Scan Ch5.	4 slides	CMX-M-NeuN-MM5-P

Selected Publications

1. He S, et al. High-plex imaging of RNA and proteins at subcellular resolution in fixed tissue by spatial molecular imaging. Nat Biotech 2022; 40: 1794-1806.

To view the annotated protein target list for the CosMx™ Mouse Neuroscience Protein Panel visit nanostring.com/CosMxMouseNeuroProtein

Bruker Spatial Biology

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