

# MAPPING THE BRAIN PROTEOME IN HEALTH AND DISEASE

The brain is one of the most complex organs in the human body, with countless processes still shrouded in mystery. **To tackle neurological diseases at their roots, it is crucial to understand the brain's molecular landscape, particularly its intricate signaling networks.**

A critical step in this process is identifying the different brain cells and how they communicate and interact under healthy conditions. **Establishing a baseline of normal cellular operations and communication provides the insight needed to recognize the changes or abnormalities that occur in neurological disorders.** This foundational knowledge is key to pinpointing the root causes of these disorders, ultimately leading to more effective interventions and treatments.

**Spatial proteomics offers unprecedented insights into the complex architecture of the brain.** Unlike traditional proteomic analyses that provide bulk protein measurements, spatial proteomics allows the visualization of specific proteins location within cells, tissues, and even subcellular compartments.

**Central to spatial proteomics are primary antibodies** that selectively bind to target proteins, enabling precise localization and visualization. Selective antibodies are essential for uncovering the biological underpinnings of brain conditions like gliomas, Alzheimer's, Parkinson's, multiple sclerosis and epilepsy, and for developing the next generation of transformative treatments.

Gain insights into the role of proteomics in unraveling the complexities of the brain by leveraging primary antibodies to pinpoint specific markers crucial for identifying various brain cell types and understanding their spatial organization within neural tissue. By mapping the distribution of proteins at subcellular resolutions, we can answer fundamental questions about brain function and pathology.



## NEUROSCIENCE RESEARCH

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Our **neuroscience catalog** spans a wide range of topics, including glioma, neuroinflammation, neural stem cells and neural lineage markers, providing specialized tools to advance your research in these critical areas.

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\*Schwann cells

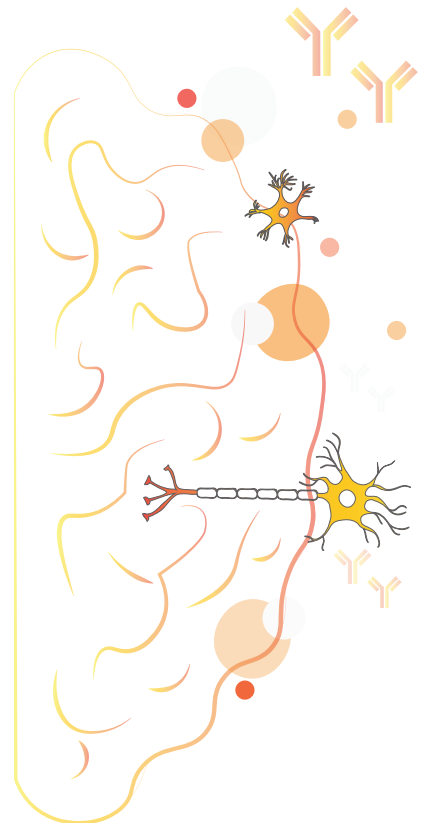
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