



Discovery proteomics for deep coverage and high throughput.

Sapient is a biomarker discovery organization providing **high throughput discovery proteomics services to measure thousands of proteins** in blood and tissue.

Leveraging state-of-the-art mass spectrometry, our methods **achieve high analytical specificity while optimizing for protein coverage and throughput** to best suit your bioanalytical needs.

Mass spectrometry measure of proteins and proteoforms.

Our mass spectrometry approach annotates proteins and post-translational modifications (PTMs) via direct peptide sequencing. **Peptide-level information** enables precise protein identification, and **capture of PTMs** allows for more in-depth analysis of protein function and regulation.

The additional value is that Sapient's discovery proteomics services are scalable. **Choose the coverage depth and throughput** that aligns with your specific study objectives.



Our approaches

Sapient /HT/ Discovery

Our fastest high throughput method, **ideal for large-scale studies** seeking to analyze thousands of samples per week.

Sapient /Core/ Discovery

Our core method that assays **>4,000 circulating proteins in plasma and serum, including PTMs**, with rapid turnaround.

Sapient /Deep/ Discovery

Optimized for **cell- and tissue-based studies** when the deepest proteome coverage is required.



High-Throughput Profiling

with next-gen analytical technologies

Sapient's discovery proteomics methods use **nanoLC coupled to trapped ion mobility mass spectrometry and nanoparticle enrichment** to measure thousands of proteins across diverse bioanalytical pathways.



Breadth and depth of coverage
of proteins and PTMs across the blood & tissue proteome



Applicable to liquid & tissue matrices
including from preclinical and clinical systems



Scalability and customization
from tens to thousands of samples

Biocomputational Analysis

with multi-omics data integration

Our data science team can provide **integrative analysis of proteomics data** with metabolomics, lipidomics, and genomics data as well as preclinical and clinical inputs to elucidate protein biomarkers and their involvement in the dynamic processes underlying disease and drug response.



Expert handling of large-scale datasets
using advanced statistical & machine learning models



Identification of key protein biomarkers
with mapping of phenotype & genotype associations

The biomarkers we discover for sponsors can be applied to align:

Right Disease

- Target ID and validation
- Disease mechanisms
- Early disease detection
- Disease progression

Right Patient

- Patient stratification
- Safety profiling
- Companion diagnostics
- Clinical trial enrichment

Right Therapy

- Dosing strategies
- Timing of treatments
- Target engagement
- Toxicology



CAP
ACCREDITED
COLLEGE of AMERICAN PATHOLOGISTS

Your partner to **discover more and develop faster.**

We are here to **extend multi-omics insights for your drug development programs beyond the genome**, to dynamic protein, metabolite, and lipid biomarkers that elucidate factors modulating health, disease, and drug response.

SAPIENT

Ready to discover more?

Schedule a time to discuss your programs with our scientists.

Visit: sapient.bio | **Email:** discover@sapient.bio | **Call:** 858.290.7010