



Discover **Novel Biomarkers**

Engine Screening Service

Your Question. Our Arrays. Your Result!

engine | the biomarker
company

Increase your chance for decisive discoveries



Are you passionate to discover new biomarkers for advancing diagnostics or predicting therapy success?

We help you to explore similarities or differences between groups of patients, diseased or healthy individuals.

Give us your hypothesis and sample.

We analyze >10,000 antigen interactions with our protein arrays.

You identify antigens and proceed with biomarker validation.

Shorten your time to result!

NEED NEW BIOMARKERS?

Screening Service with engine Protein Arrays!

**Ready-to-use results in
only 2 weeks**

One shot analysis of >10,000 antigens done by us
instead of single-antigen study done by you!

- 1. Send us 50 µl sample**
Any matrix (e.g. serum, CSF, cell supernatant)!
- 2. Experimental setup based on your needs**
- 3. We analyze in house**
 - auto-antibody profiles
 - protein interactions
 - epitope mapping
 - protein functions
 - **Disease-related protein modifications**
e.g. citrullination, phosphorylation, carbamylation
- 4. Receive your evaluated results within 2 week**
 - Analysis of interactions
 - Antigen identification
 - Scientific report
 - Raw dataIncluding technical discussion
- 5. Identify your recognized antigens directly!**

High discovery power

The unbiased, hypothesis-free analysis has a high discovery power to detect novel biomarkers and allows an objective analysis of causal disease-correlations.

Hypothesis-free & unbiased

The analysis does not require prior knowledge of probable interactors and is free from any biases. Array proteins are not pre-selected based on a hypothesis or experience. Also weak questions can be checked quickly.

High informative value

Upscaled throughput of >10,000 antigens per sample. High amount and quality of sample-specific data from a small sample volume.

Compare biospecimens

Identify disease-related associations and compare sera, CSF or cell supernatants - as desired, from patient or diseases groups, controls or healthy individuals.

Study disease-related protein modifications

Enzymatic modified protein-arrays unravel, if citrullination, phosphorylation or carbamylation are disease-associated.

Easy follow-up

Receive all information and methodological requirements for further experiments, ensuring reproducibility beyond a method change. Easily verify your hypothesis and match your results for deciphering disease correlation.

Service the way you expect it

We handle your data strictly confidential and treat your samples as you would! Joint decisions and expert support from our experienced in-house specialists are a matter of course.

Full data access for you only

Get full access and control over your data, results and samples. Strictly confidential data and sample handling.

Get faster to grant!

We help with your application! Fast results and the increased probability of innovative insights facilitate your grant approval.

No sample material available?

We procure any desired human biospecimen you need.

Expert support for expert results

engine is pioneer in the protein-array technology. The heart of our service was developed in 15 years intensive research, published in more than 100 studies by now. Our in-house specialists are looking forward to help you discovering new biomarkers.

Convince yourself in advance

Get an impression of what your results could look like with the help of result examples.

Our Protein Arrays!

Your Chance for Breaking Results

> 10,000 human proteins

Our protein arrays present over 10.000 human proteins derived from different tissues. Proteins are not pre-selected based on a hypothesis or experience. The corresponding cDNA expression libraries were validated and advanced based on more than 15 years of experience in the field.

Documented technology

The robust and documented technology with *E. coli* clones in duplicates guarantee reliable and reproducible results.

No biases

Total independence from current status-quo techniques (methodological status-quo bias). No user-dependent and confirmation biases caused by irregularities in performance and interpretation or expectations.

Enzymatic modifications

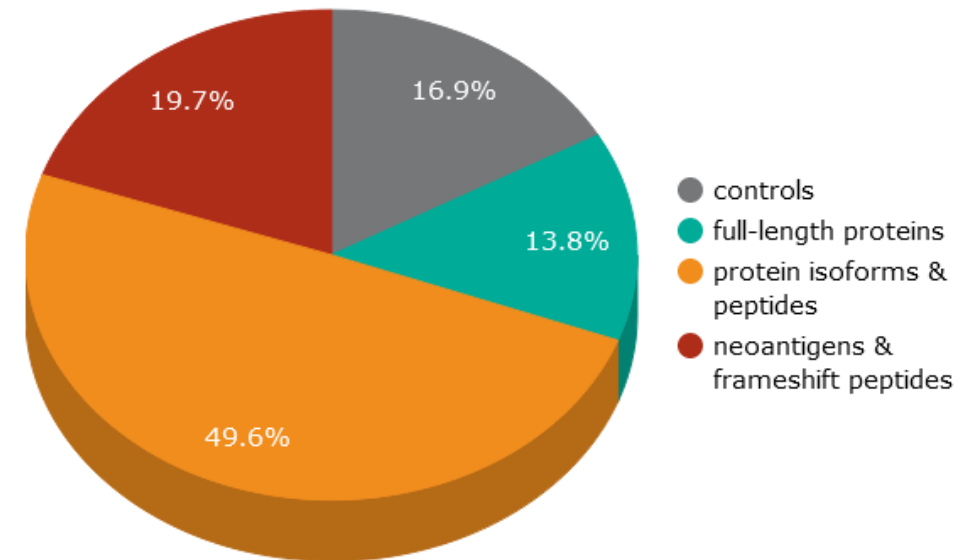
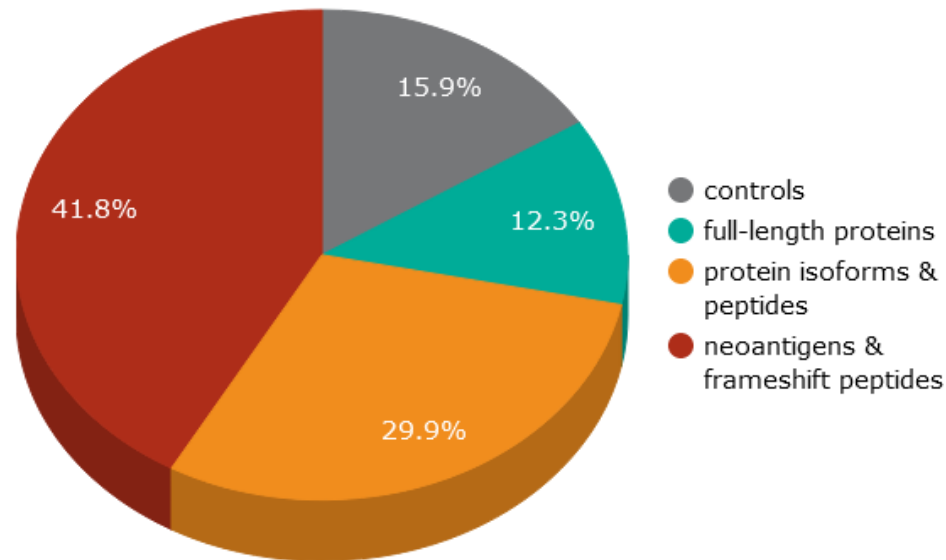
We can modify our protein arrays enzymatically to investigate disease-related protein modifications. For example, antibodies against cyclic citrullinated peptides in rheumatoid arthritis.

- Citrullination
- Phosphorylation
- Carbamylation

Our Protein Arrays

Our technique: *E. coli* clones are spotted onto PVDF membrane (22 x 22 cm / approx. 8.7 x 8.7 inch), these express recombinant human proteins with N-terminal RGS-His₆ tag.

	hEXselect engine Protein Array	UniPEX engine Protein Array
Product No.	1003	1008
Source	Human fetal brain cDNA	Human fetal brain, T-cells, lung and colon cDNA
Array Content	>57,000 spots in total, >19,000 distinct human antigens, > 4,000 different genes	>36,000 spots in total, >14,000 distinct human antigens, >5,000 different genes



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