Olink® Flex

Create tailored solutions to fit your unique inflammation research needs. Freely mix and match 5-30 biomarkers into a single panel with no compromise on data quality.

Tailored solutions for your research needs

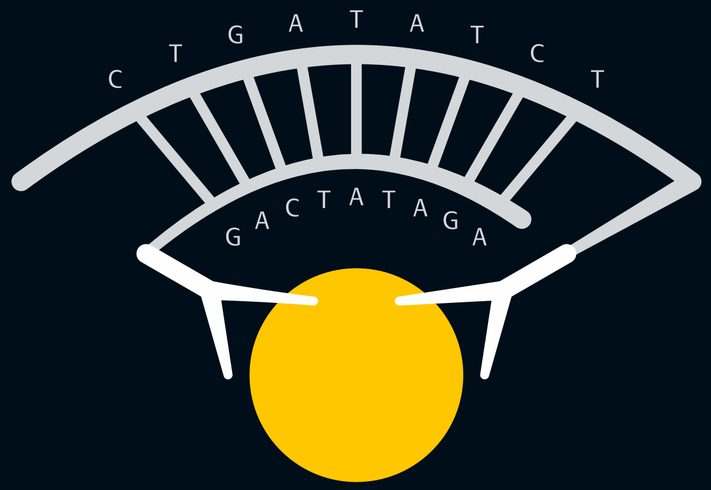
Olink Flex enables targeted research studies by combining up to 30 pre-validated biomarkers from our extensive Flex library with industry-leading combinability, while maintaining exceptional data quality and leveraging minimal sample consumption.

OVERVIEW

Proteins	Sample	Protein library
5-30	1 µL	~200
Per panel	Plasma, serum & more	Pre-validated assays
Readout	Combinability	Runs on
pg/mL	99%	Signature
Or NPX relative units	Industry-leading	Q100

Proximity Extension Assay

The exceptional performance of these customisable panels is based on the PEA technology. The dual antibody recognition assay format provides outstanding specificity, while PCR amplification readout provides high sensitivity. Supported by an extensive publication record, rigorous validation, and a comprehensive quality control system, we offer data you can trust.



Create and customize

Olink Flex offers a selection of pre-designed panels spanning a wide range of research areas, designed by or in collaboration with experts in the field. Choose from panels such as *Pro-inflammatory response*, *Inflammation*, *Immuno-Oncology*, *Cytokine Storm*, *Inflammation in aging*, *Th1/Th2/Th17 response* and more.

Building a custom Flex panel is easy. You can further customize the biomarker content or design your panel from scratch by mixing and matching assays from the entire Olink Flex library.

Pro-inflammatory response

Combines 5 key proinflammatory markers for targeted studies of inflammation and immune response.

BIOMARKER (5)	UNIPROT ID	GENE NAME
Interferon Gamma	P01579	IFNG
Tumor Necrosis Factor	P01375	TNF (TNFA, TNFSF2)
Interleukin-1 beta	P01584	IL1B (IL1F2)
Interleukin-6	P05231	IL6 (IFNB2)
Interleukin-8	P10145	CXCL8 (IL8)

Inflammation Panel

Includes 26 biomarkers crucial for studying inflammation and providing deeper insights into the immune landscape.

BIOMARKER (26)	UNIPROT ID	GENE NAME
C-C motif chemokine 3	P10147	CCL3 (G0S19-1, MIP1A, SCYA3)
Eotaxin	P51671	CCL11 (SCYA11)
Interleukin-6	P05231	IL6 (IFNB2)
Interleukin-8	P10145	CXCL8 (IL8)
Tumor necrosis factor	P01375	TNF (TNFA, TNFSF2)
C-C motif chemokine 4	P13236	CCL4 (LAG1, MIP1B, SCYA4)
Interleukin-1 beta	P01584	IL1B (IL1F2)
Interleukin-1 alpha	P01583	IL1A (IL1F1)
C-C motif chemokine 2	P13500	CCL2 (MCP1, SCYA2)
Interleukin-10	P22301	IL10
Interleukin-15	P40933	IL15
Interleukin-17A	Q16552	IL17A (CTLA8, IL17)
Interferon gamma	P01579	IFNG
Interleukin-13	P35225	IL13 (NC30)
Interleukin-2	P60568	IL2
Interleukin-7	P13232	IL7
C-C motif chemokine 13	Q99616	CCL13 (MCP4, NCC1, SCYA13)
Pro-interleukin-16	Q14005	IL16
Vascular endothelial growth factor A	P15692	VEGFA (VEGF)
Interleukin-4	P05112	IL4
Interleukin-5	P05113	IL5
C-C motif chemokine 17	Q92583	CCL17 (SCYA17, TARC)
Granulocyte-macrophage colony-stimulating factor	P04141	CSF2 (GMCSF)
Lymphotoxin-alpha	P01374	LTA (TNFB, TNFSF1)
C-C motif chemokine 26	Q9Y258	CCL26 (SCYA26)
Interleukin-12 subunit beta	P29460	IL12B (NKSF2)

Getting started is easy

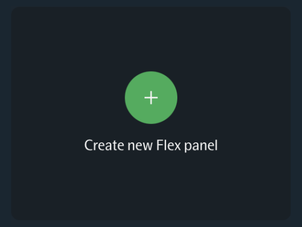
Start building your protein biomarker panels today, simply register free on insight.olink.com, and click the Flex panel builder.

Olink Insight also offers a comprehensive suite of tools and data sets to assist you through every step of your research journey.

Start from our pre-designed panels

Choose from expertly curated panels, or customize them further with assays from the entire Flex library to suit your study needs.

SEE THE PANELS



Design your own panel

Build a new custom panel tailored to your unique research interests. Freely mix and match protein biomarkers from the entire Flex library of close to 200 assays.

EXPLORE THE FLEX LIBRARY

Delivering quality with flexibility

With other methodologies, customized panels may require compromises on analyte combinability and panel validation. Olink's unique PEA technology and commitment to rigorous validation overcome these limitations. All Olink assays go through a three step, 15-factor analytical verification process. For additional performance validation, sample plates and 20-plex Flex kits were distributed to eight laboratories.

The different sample types clustered together regardless of the laboratory site (Fig. 1), while the correlation between sites (Tab. 1) was over 0.9 for all proteins (excluding CSF2 for which the distribution of datapoints was narrow).

Site-variation data showed that CVs were at 10% or lower for all tested parameters (Tab. 2). You can therefore be confident that Olink Flex offers a unique combination of flexibility and data quality for the measurement of your protein biomarkers.

Quality Control

Once the specific Flex panel has been produced, quality control is performed, and a panel-specific Certificate of Analysis is produced.

Lot-to-lot monitoring

Extensive QC procedures are implemented to minimize lot-to-lot variation and ensure consistent and reliable data.

Scalability

The correlation of Olink Flex with Olink Target 48 and Olink Target 96 panels has been evaluated to ensure scalability and robustness between Olink's products

Figure 1 – Clustering of samples across sites

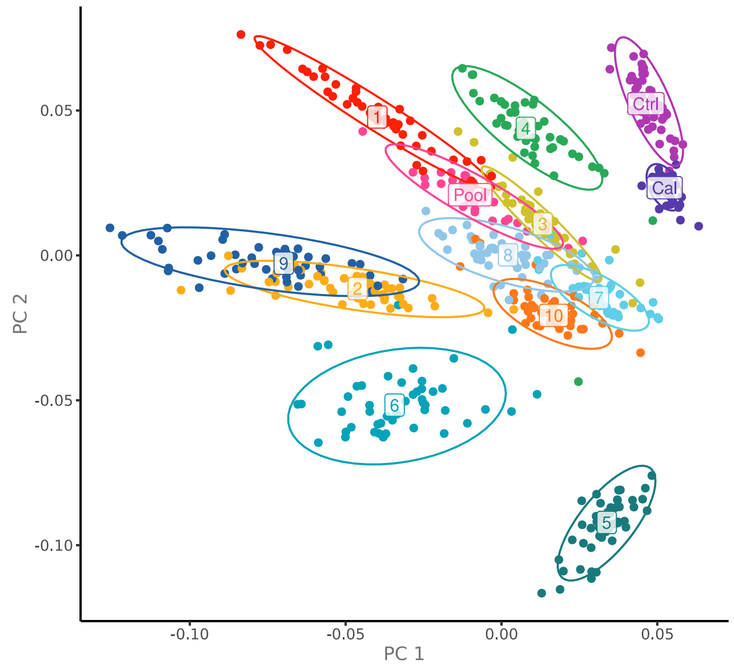


Table 1 – Site correlation

PROTEIN	CORR. R^2
IFNG	0.960
IL19	0.981
IL1B	0.903
IL6	0.993
VEGFD	0.938
CXCL10	0.967
IL10	0.968
TNF	0.996
CXCL8	0.986
CSF2	0.348
VEGFA	0.961
CCL2	0.926
IL18	0.941
HAVCR1	0.986

Table 2 – Site variation

METHOD	PERCENTAGE
Intra-CV	7.2%
Inter-CV	10.40%
Inter-site-CV	5.2%

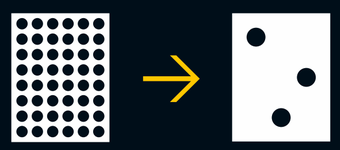
Access the full studies, view White paper and Validation data

Flexible immune biomarker profiling with absolute confidence

Olink's absolute quantification panels offer solutions to enhance your inflammation research. Our Target 48 Cytokine and Target 48 Immunosurveillance panels each contain up to 45 immune-related proteins and can be run together for a comprehensive view of cytokine signaling and inflammatory processes.

For scalable biomarker coverage, combine Target 48 panels with Flex custom panels—ideal for validating biomarker signatures or gaining flexibility in immune profiling.

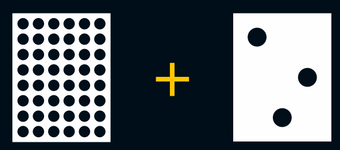
Validation



Olink Target 48 → Olink Flex

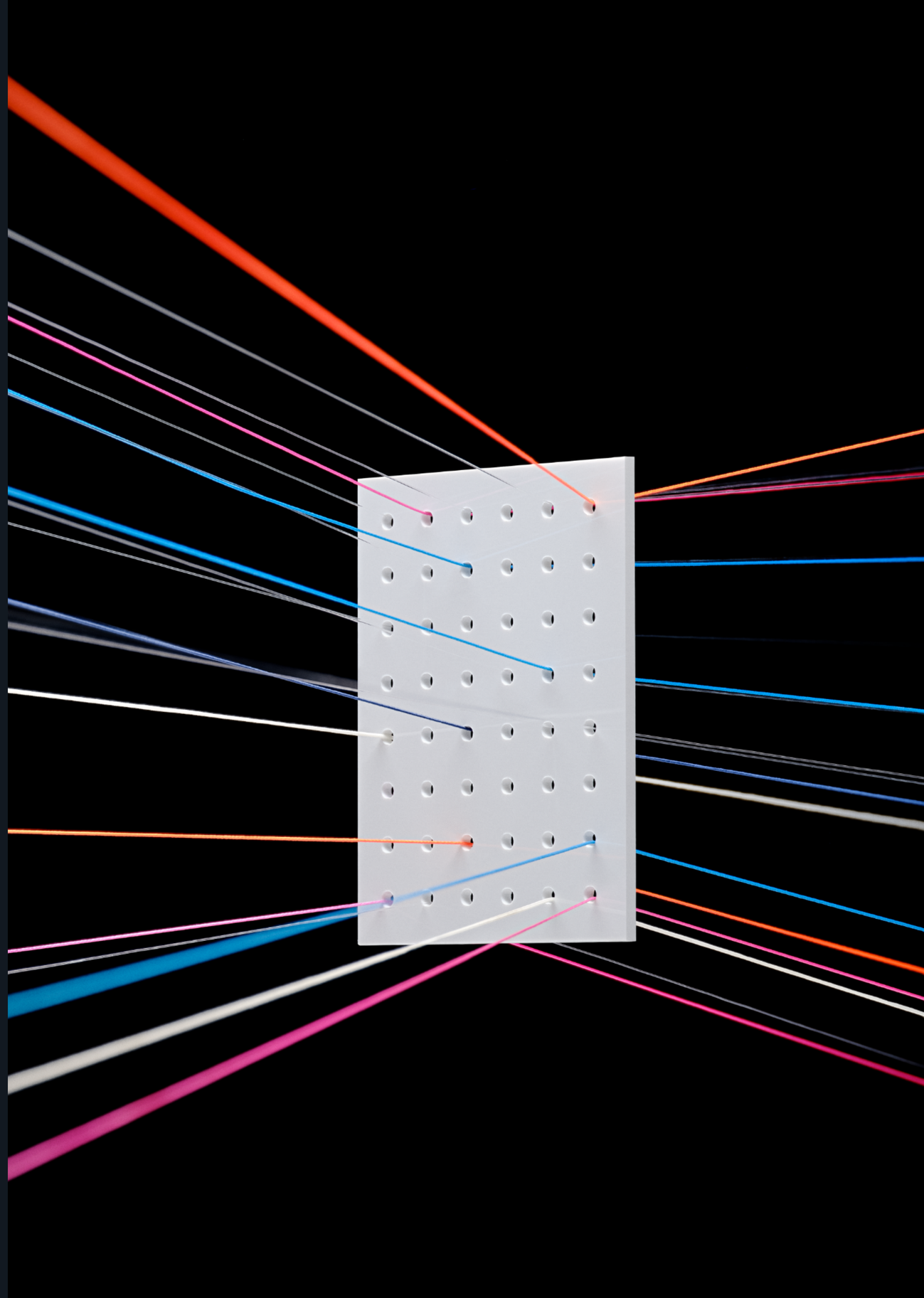
Quickly move from targeted immune biomarker profiling to validating your signature

Flexibility



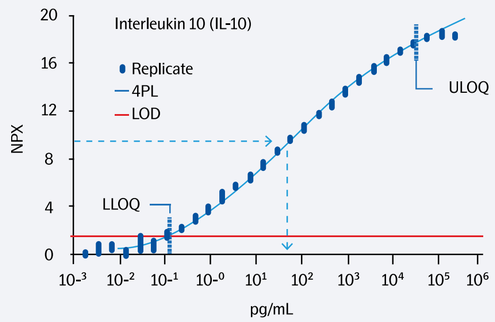
Olink Target 48 + Olink Flex

Broaden and customise your immune biomarker profiling by combining multiple Olink panels

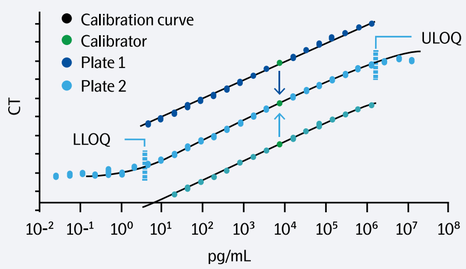


Absolute quantification with ultimate precision

Olink's method of absolute quantification relies on high- resolution pre-established calibration curves for each analyte during product development. For each run, include a single calibrator in triplicates to adjust the pre-established calibration curve.

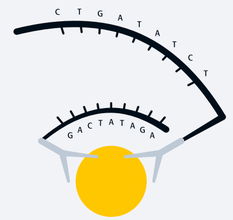


An example of a standard curve experimentally generated for each assay during panel development.



A single calibrator in triplicate is run on each sample plate and the signal is used to adjust the pre- generated curve.

Unmatched confidence with unique quality control system



Incubation control

Extension control

Detection control

Olink assays incorporate rigorous quality control for each individual sample, designed to monitor the three main steps of the Proximity Extension Assay protocol. Controls are added to each well, allowing for:

- Normalization for technical variations.
- Identification of technical errors, avoiding usage of affected runs.
- Identification of outliers improving your data downstream analysis.
- Singlicate measurement with confidence.

One benchtop instrument for all your research needs

Designed for ease of use and minimal investment, the Olink Signature Q100 provides a streamlined workflow of Target and Flex panels in your own lab, facilitating impactful discoveries.

Micro-volume mastery

Unrivaled efficacy with just 1 uL per panel, perfect for limited or precious biological specimens.

Minimal maintenance

Easy integration with self-calibration and plug-and-play installation.

Maximum efficiency

Streamlined data processing, with integrated qPCR readout and designated NPX Signature software.

Learn more at olink.com/flex

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