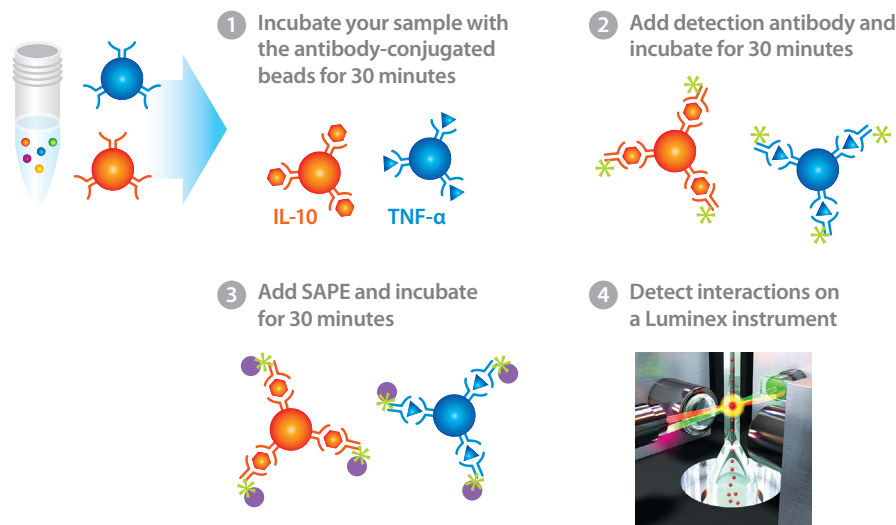


# Procarta™ Cytokine Profiling Kits



## The Technology

Procarta protein assays use the xMAP® technology (multi-analyte profiling beads) to enable the detection and quantitation of multiple protein targets simultaneously. The xMAP system combines a flow cytometer, fluorescent-dyed microspheres (beads), lasers and digital signal processing to effectively allow multiplexing of up to 100 unique assays within a signal sample. The Procarta assay kits are compatible with all Luminex and Luminex-based instruments currently available.

## Measure Protein and Gene Expression from the Same Sample Well

Panomics' Procarta Cytokine Assay Kits enables the profiling of up to 20 different cytokines per reaction. When coupled with Panomics' QuantiGene Plex assays, both gene and protein expression can be quantitated from the same sample well (supernatant for protein quantitation and

cell lysate for mRNA quantitation) enabling the parallel study of gene expression at the RNA and protein level.

## Procarta Cytokine Assay Kits

Procarta Cytokine assays simultaneously quantitate 3-20 cytokines from diverse matrices in 3 hours with a sensitivity of 10 pg/mL/cytokine. Human and Mouse Cytokine Assay Kits are available in 1- and 10-plate sizes for fixed, off-the-shelf formats, or By Request, customer defined mix-to-order formats. By Request orders are processed and delivered in a pre-mixed ready to use format in ~1 week. Procarta Cytokine Assay Kits contain all the components to process cell culture supernatant samples and include: pre-mixed, ready to use, antibody-conjugated beads; 96-well filter plate and holder; assay and wash buffers; sample buffer; pre-mixed, ready to use detection antibodies; Streptavidin-PE (SAPE) fluorescence detection reagent; and premixed antigen standards.

## Profile Cytokines in Diverse Matrices

Quantitate cytokines from cell culture supernatants, serum or plasma samples

## Minimal Sample Requirements

Results from up to 20 cytokines with 25 µL of sample

## Complete Assay in 3 Hours

Sample to quantitative results with 10 pg/mL/cytokine sensitivity

## Flexible Kit Formats

Pre-formatted or By Request Cytokine Assays delivered within ~1 week

## Procarta Standard Diluent Kits

Procarta Cytokine Standard Diluent Kits for plasma and serum, sold separately, contain a single component, species/matrix-specific Standard Buffer, for preparation of antigen standards and dilution of experimental samples (if required). Panomics' Procarta Cytokine Standard Diluent Kits are designed for use with Procarta Cytokine Assay Kits. Using the appropriate Standard Buffer ensures optimal recovery and sensitivity of the cytokines being analyzed in a serum or plasma matrix.

## Specifications

Sensitivity	10 pg/mL/cytokine
Precision	Average Inter-assay CV <10% Average Intra-assay CV <10%
Spike Recovery (Accuracy)	80-120%
Cross Reactivity	Negligible
Matrices	Cell culture supernatants, serum, plasma

## Procarta Preformatted Cytokine Assays

Human 20-plex	IL-1 $\beta$ , IL-2, IL-4, IL-5, IL-6, IL-7, IL-8, IL-10, IL-12(p70), IL-13, IL-17, IFN $\gamma$ , GM-CSF, TNF- $\alpha$ , G-CSF, MIP-1 $\beta$ , MCP-1, EOTAXIN, FGF basic, VEGF
Human 10-plex	IL-1 $\beta$ , IL-2, IL-6, IL-8, IL-10, IL-12(p70), IL-13, IFN $\gamma$ , GM-CSF, TNF- $\alpha$
Mouse 19-plex	IL-1 $\alpha$ , IL-1 $\beta$ , IL-2, IL-3, IL-4, IL-5, IL-6, IL-10, IL-12(p40), IL-12(p70), IL-17, IL-13, KC, RANTES, IFN $\gamma$ , GM-CSF, TNF- $\alpha$ , MIP-1 $\alpha$ , EOTAXIN
Mouse 10-plex	IL-1 $\beta$ , IL-2, IL-6, IL-10, IL-12(p40), IL-12(p70), IL-13, IFN $\gamma$ , GM-CSF, TNF- $\alpha$

## Procarta Cytokine Assay Kits, Preformatted

Product	Species	Plex	Size	Cat. #
Procarta Cytokine Assay Kit	Human	20	96 assays (1-plate)	PC0001
Procarta Cytokine Assay Kit	Human	10	96 assays (1-plate)	PC0003
Procarta Cytokine Assay Kit	Mouse	19	96 assays (1-plate)	PC0101
Procarta Cytokine Assay Kit	Mouse	10	96 assays (1-plate)	PC0103

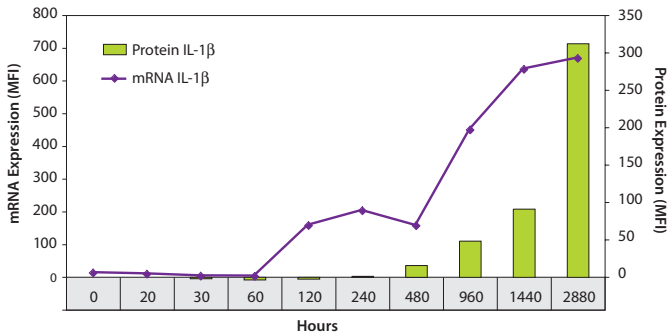
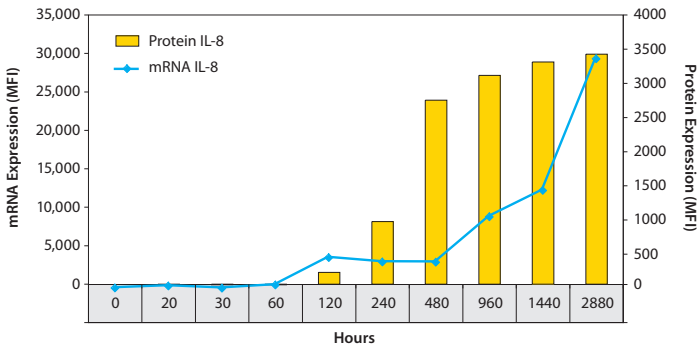
Check our website for additional sizes

## Procarta Cytokine Standard Diluent Kits

Product	Species	Matrix	Size	Cat. #
Procarta Cytokine Standard Diluent	Human	Serum	2.5 mL	PC0050
Procarta Cytokine Standard Diluent	Human	Plasma	2.5 mL	PC0052
Procarta Cytokine Standard Diluent	Mouse	Serum	2.5 mL	PC0150
Procarta Cytokine Standard Diluent	Mouse	Plasma	2.5 mL	PC0152

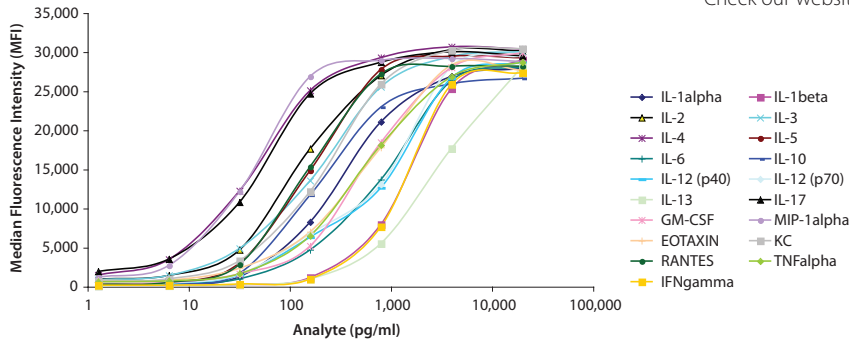
Check our website for additional sizes

Contact your local representative for details on ordering By Request Procarta Cytokine Assays. For more information visit our website at [www.panomics.com](http://www.panomics.com) or call us at 1.877.726.6642.



**Simultaneous analysis of protein and gene expression from the same sample.** Human histiocytic lymphoma cells, U-937, were treated with 1  $\mu$ g/mL of LPS. At various timepoints, cells culture supernatants samples were collected and the corresponding cells were lysed. The supernatants were analyzed for 20 different cytokines using Procarta Human Cytokine Assay. The cell lysates were analyzed for 30 different cytokines using QuantiGene Plex Reagent System. The results of protein and gene analysis of two cytokines, IL-8 and IL-1 $\beta$ , are shown above.

**Standard Curves were generated in cell culture media using Panomics' 19-plex Procarta Mouse Cytokine Assay Kit.** Each analyte has a sensitivity of 10 pg/mL or less and an assay range over 3 logs.



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