RayPlex Bead Arrays

Cytometric Bead-Based Arrays for Multiplex Protein Detection

RayBio Antibodies,
MEET RAYPLEX BEADS

OUR ANTIBODY PAIRS ARE NOW AVAILABLE IN CBA FORMAT

Less Sample = More Data
Up to 25 proteins can be quantified from 25 µl of sample (or less).

Compatible with Most Flow Cytometers
Laser requirement: blue (PE channel) and red (APC channel).

Customizable Panels
Choose your own panel from our validated antibody pairs.

NO FLOW CYTOMETER?
FULL SERVICE AVAILABLE

LEARN MORE

RayBiotech
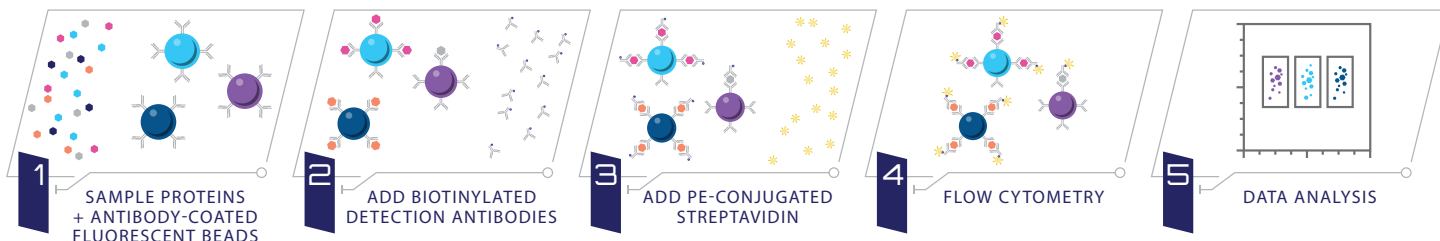Empowering your proteomics

More arrays coming soon
View complete selection here: raybiotech.com/rayplex

	Cat #	Description	Size	Analyte List
RayPlex Human Inflammation Array 1	FAH-INF-1	Detects 13 human inflammatory factors. For serum, conditioned medium, cell lysate, tissue lysate.	50, 100, 200, or 500 samples	GCSF, IFN-γ, IL-10, IL-12 p70, IL-13, IL17A, IL-1 β, IL-2, IL-23 p19, IL-4, 1L-6, MCP-1, TNF-α
RayPlex® Human B Cell Cytokine Array 1	FAH-BC-1	Detects 13 human factors involved in B cell function. For serum, plasma, conditioned medium.	50, 100, 200, or 500 samples	BAFF, CD40L, IFN-γ, IL-10, IL-12 p70, IL-13, IL-17A, IL-2, IL-4, IL-6, IL-7, TNF-α, TNF-β
RayPlex® Human Cytokine Storm Array 1	FAH-STRM-1	Detects 25 human inflammatory factors associated with cytokine storm. For serum, plasma, conditioned medium.	50, 100, 200, or 500 samples	bFGF, Eotaxin-1, GCSF, GM-CSF, IFN-γ, IL-10, IL-12 p70, IL-13, IL-15, IL-17A, IL-1β, IL-1 Ra, IL-2, L-4, IL-5, IL-6, IL-7, IL-8, MCP-1, MIP-1α, MIP-1β, PDGF-BB, RANTES, TNF-α, VEGF-A
RayPlex® Human T Helper Cell Cytokine Array 1	FAH-TH-1	Detects 13 human cytokines secreted by T helper cells. For serum, plasma, conditioned medium.	50, 100, 200, or 500 samples	GM-CSF, IL-10, IL-13, IL-15, IL-17A, IL-1β, IL-2, IL-22, IL-33, IL-4, IL-5, IL-6, TNF-α
RayPlex® Mouse Inflammation Array 1	FAM-INF-1	Detects 13 mouse inflammatory factors. For serum, conditioned medium, cell lysate, tissue lysate.	50, 100, 200, or 500 samples	GCSF, IFN-γ, IL-10, IL-12 p70, IL17A, IL-1 β, IL-2, IL-23 p19, IL-4, 1L-6, GRO-α, MCP-1, TNF-α

how it works

The target protein is immobilized between a capture antibody on a microbead and a phycoerythrin (PE)-conjugated detection antibody. The protein levels can be quantified by comparing the PE signal to a standard curve. By using different combinations of microbead sizes and fluorophores, multiple target proteins are analyzed simultaneously.

1 SAMPLE PROTEINS + ANTIBODY-COATED FLUORESCENT BEADS

2 ADD BIOTINYLATED DETECTION ANTIBODIES

3 ADD PE-CONJUGATED STREPTAVIDIN

4 FLOW CYTOMETRY

5 DATA ANALYSIS

Up to 25 Analytes Can Be Detected Simultaneously

8 µm

5 µm

3 µm
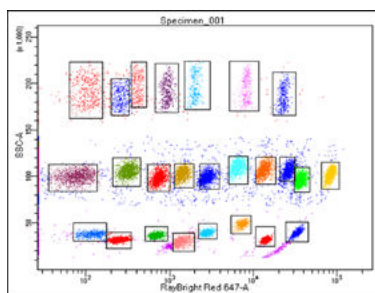
The signals from different immunoassays are resolved by 2 parameters: microbead size (3, 5, or 8 µm) and fluorophore color (PE and allophycocyanin). The various bead size and color combinations generate up to 25 distinct bead regions, enabling multiplex protein detection.

RayBiotech
Empowering your proteomics