

SpeedyPLEX

CBA Assay Panels

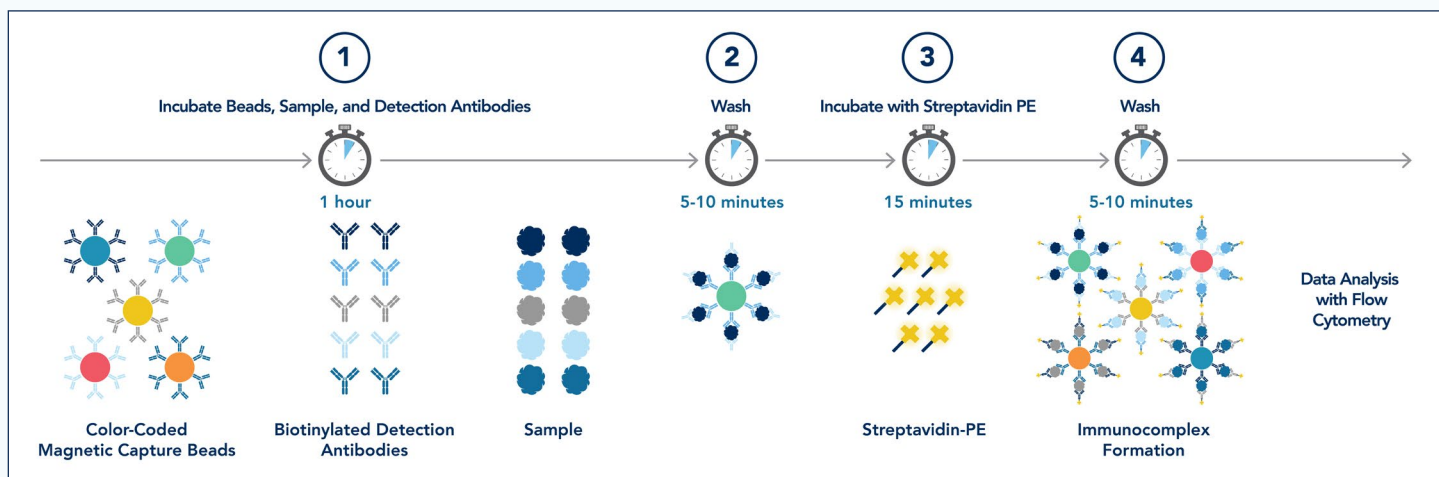
Proteintech's SpeedyPLEX Kits are multiplexed immunoassays based on cytometric bead array (CBA) technology. They can be used to detect multiple analytes within a sample, making them perfect for characterizing immune responses, profiling disease states, and understanding biomarker expression patterns.

Benefits:

- Pre-configured, ready-to-use panels
- Compatible with most standard flow cytometers
- Only 25µL of sample needed for analysis
- Rapid results in only 90 minutes

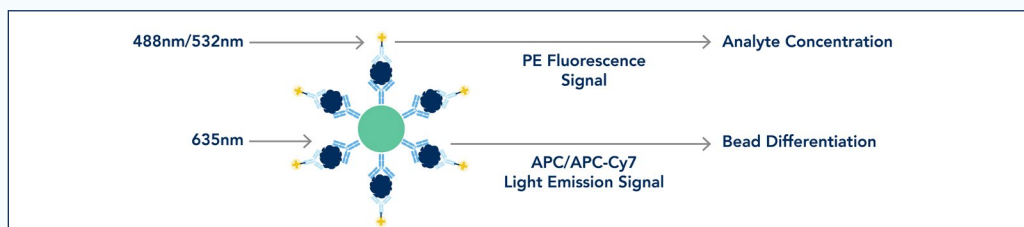
Rapid Assay Protocol

Proteintech's SpeedyPLEX Kits utilize fluorescent dye, color-coded beads which are conjugated to capture antibodies. The capture beads are incubated together with sample and corresponding biotinylated detection antibodies to assemble the sandwich complex. Streptavidin-PE is then added, which is used for detecting the concentration of target analytes via flow cytometry. Through this simple workflow, samples can be prepared for analysis in as little as 90 minutes.



Data Analysis with Flow Cytometry

Beads can be distinguished in the flow cytometer due to their unique combinations of APC and APC-Cy7 dyes, with each target being associated with only one type of color-coded bead. The flow cytometer then collects the level of PE fluorescence from the different beads, which corresponds to analyte concentrations.

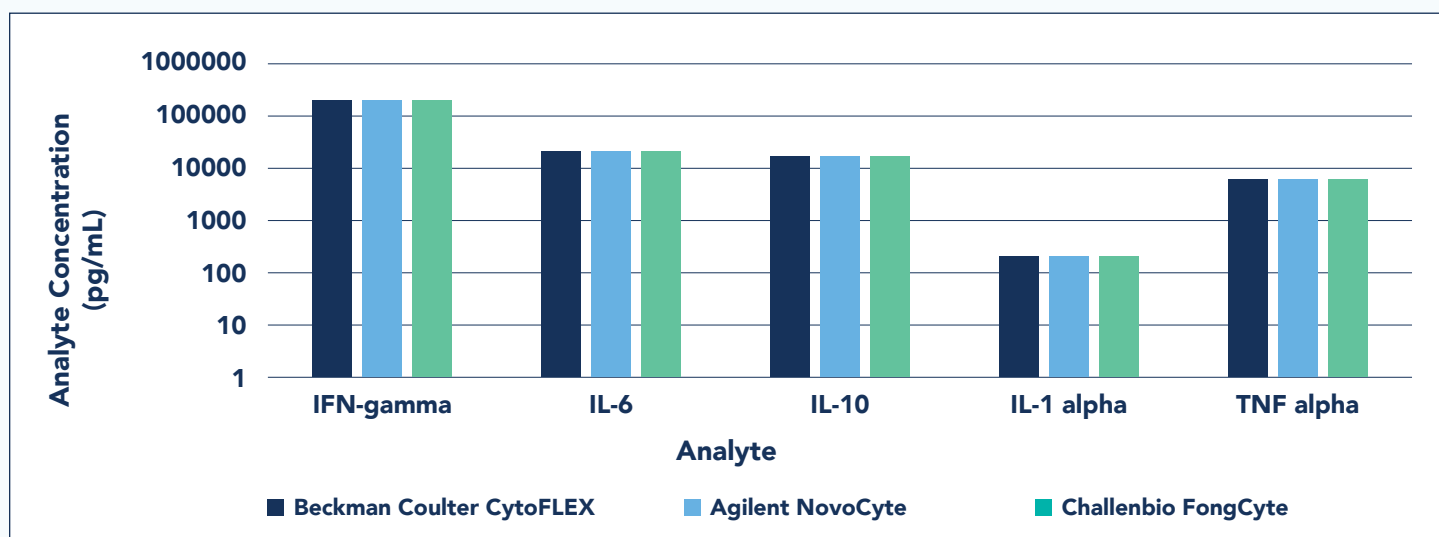


Learn more
and browse
SpeedyPLEX
panels



Compatible with any Flow Cytometer

Proteintech's SpeedyPLEX Kits work on any standard flow cytometer equipped with two lasers (488/532 nm and 635 nm) for PE and APC detection.



(Above) Analysis of cell supernatants collected from human PBMCs that were stimulated with 10µg/mL PHA for 3 days. Supernatants were assayed for IFN-gamma, IL-6, IL-10, IL-1 alpha, and TNF alpha using the SpeedyPLEX Human Cytokine (4-plex) CBA Assay Panel 2 (KMF00002) followed by data analysis on Beckman Coulter® CytoFLEX (blue), Agilent® NovoCyte (light blue), and Challenbio FongCyte™ (green) flow cytometers. The measured analyte concentration is comparable across all cytometers with no noticeable differences seen.

Pre-configured, ready-to-use kits

Get everything you need for high-throughput sample analysis in one box

Kit Components:

- 96-Well Microplates (flat- and V-bottom)
- Setup Beads
- PE Control Beads
- Protein Standard Cocktail
- Magnetic Capture Beads
- Biotinylated Detection Antibodies
- Sample Diluent
- Detection Diluent
- Wash Buffer
- Streptavidin-PE
- Plate Seals
- Easy-to-follow protocol

Product Offering

Catalog No	Product	Targets
KMF00001	SpeedyPLEX Human Cytokine (4-plex) CBA Assay Panel	IL-1 alpha, IL-4, IL-6, TNF alpha
KMF00002	SpeedyPLEX Human Cytokine (4-plex) CBA Assay Panel 2	IL-4, IL-6, IL-10, IFN gamma
KMF10001	SpeedyPLEX Mouse Cytokine (4-plex) CBA Assay Panel	IL-1 beta, IL-6, IL-10, TNF alpha
KMF00003	SpeedyPLEX Human Th1/Th2 Cytokine (6-plex) CBA Assay Panel	IL-2, IL-4, IL-6, IL-10, TNF alpha, IFN gamma
KMF00004	SpeedyPLEX Human Th1/Th2 Cytokine (6-plex) CBA Assay Panel 2	IL-2, IL-4, IL-5, IL-10, TNF alpha, IFN gamma
KMF00005	SpeedyPLEX Human/Non-Human Primate Th1/Th2 Cytokine (6-plex) CBA Assay Panel	IL-2, IL-4, IL-5, IL-6, TNF alpha, IFN gamma

When you need it all.

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