

# FlowCytomix™ Multiple Analyte Detection System

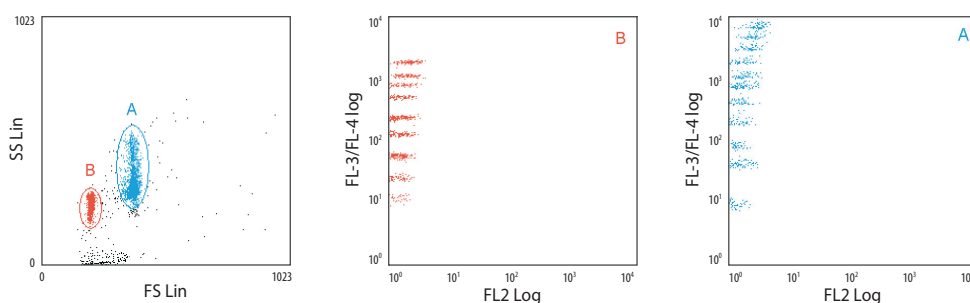
*Bead-based multiplex immunoassay for the flow cytometer*

Multiple analyte detection is an invaluable tool for the comprehensive study of biological systems, as they are comprised of networks of cytokines, chemokines, growth factors and related proteins. The FlowCytomix™ Multiple Analyte Detection System is a bead-based immunoassay for simultaneous detection of up to 20 analytes in one sample.

- **Sample friendly** – requires only 25 µl of sample from serum, plasma, or cell culture supernatants.
- **Easy to customize** – choose from a menu of protein targets to create your own assay panels.
- **Flexible protocol** – adaptable for use with 96 well plates or individual tubes.
- **Free software** – no need to spend hundreds of dollars for data analysis software.
- **Broad usage** – can be used on most flow cytometers, including single laser instruments.

The FlowCytomix™ Pro Software (BMS8401FF) is easy to use and allows users to obtain results in a minimum of time. The software is complimentary and can be downloaded from our website [www.bendermedsystems.com/software-download](http://www.bendermedsystems.com/software-download)

## FlowCytomix™ Analysis



Fluorescent polystyrol beads are coupled with antibodies specific to the analytes to be detected. Beads are differentiated by their sizes and distinct spectral signature by flow cytometry. The combination of the two different bead sizes and different internal dye intensities makes it possible to distinguish up to 20 bead sets in one fluorescent channel.

## FlowCytomix™ Multiplex Kits

### Human Multiplex Kits

Product	Analytes	Cat. No.
Th1/Th2 11plex	IL-1β, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12 (p70), TNF-α, TNF-β, IFN-γ	BMS810FF
Th1/Th2 11plex Ready-to-Use <b>NEW</b>	IFN-γ, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12 (p70), TNF-α, TNF-β	BMS810FFRTU
Th1/Th2/Th9/Th17/Th22 13plex <b>NEW</b>	IFN-γ, IL-1β, IL-2, IL-4, IL-5, IL-6, IL-9, IL-10, IL-12 (p70), IL-13, IL-17A, IL-22, TNF-α	BMS817FF
Chemokines 6plex	MIP-1α, IL-8, MIP-1β, G-CSF, MIG, MCP-1	BMS813FF
Adhesion 6plex	sE-Selectin, sICAM-1, sICAM-3, sPECAM-1, sP-Selectin, sVCAM-1	BMS812FF
Cardiovascular 6plex	sCD40L, IL-6, IL-8, MCP-1, sP-selectin, t-PA	BMS811/2FF
Obesity 9plex	sCD40L, sICAM-1, IL-6, Leptin, MCP-1, MPO, OPG, Resistin, sTNF-R1 (60kDa)	BMS816/2FF

### Mouse Multiplex Kits

Product	Analytes	Cat. No.
Th1/Th2 10plex	GM-CSF, IFN-γ, IL-1α, IL-2, IL-4, IL-5, IL-6, IL-10, IL-17, TNF-α	BMS820FF
Th1/Th2/Th17/Th22 13plex <b>NEW</b>	IFN-γ, IL-1α, IL-2, IL-4, IL-5, IL-6, IL-10, IL-13, IL-17A, IL-21, IL-22, IL-27, TNF-α	BMS822FF
Chemokines 6plex	MIP-1α, MCP-3, MIP-1β, GM-CSF, RANTES, MCP-1	BMS821FF

### Rat Multiplex Kits

Product	Analytes	Cat. No.
Cytokines 6plex	GM-CSF, IFN-γ, IL-1α, IL-4, MCP-1, TNF-α	BMS825/2FF

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## FEATURING

### MULTIPLEX KITS

- **Human**
  - Th1/Th2 11plex
  - Th1/Th2 11plex Ready-to-Use **NEW**
  - Th1/Th2/Th9/Th17/Th22 13plex **NEW**
  - Chemokines 6plex
  - Adhesion 6plex
  - Cardiovascular 6plex
  - Obesity 9plex
- **Mouse**
  - Th1/Th2 10plex
  - Th1/Th2/Th17/Th22 13plex **NEW**
  - Chemokines 6plex
- **Rat**
  - Cytokines 6plex

### SIMPLEX KITS

- **Human**
  - Calcitonin
  - FGF-2
  - IL-1RA
  - IL-9
  - IL-17AF
  - IL-17F
  - Osteocalcin
  - Osteopontin (OPN)
  - RANKL
- **Mouse**
  - IL-15/IL-15R
  - IL-17AF
  - IL-21
  - IL-27
- **Rat**
  - IL-17A



## FlowCytomix™ Simplex Kits

Human Simplex Kits				
Analyte	Bead Set	Sensitivity	Standard Range	Cat. No.
Adiponectin	B7	0.06 ng/ml	0.1 - 50 ng/ml	BMS82032FF
sAPO-1/Fas	A3	10.0 pg/ml	34 - 25,000 pg/ml	BMS80245FF
Calcitonin	A9	12 pg/ml	13.7 - 10,000 pg/ml	BMS82067FF
Caspase-3	B9	20 pg/ml	82 - 60,000 pg/ml	BMS82012FF
Caspase-9	A7	0.07 ng/ml	0.2 - 150 ng/ml	BMS82025FF
sCD30	B3	5.1 pg/ml	0.3 - 250 ng/ml	BMS8240FF
sCD40L	A3	23.4 pg/ml	55 - 40,000 pg/ml	BMS8239/2FF
CD44var (v6)	A7	126.0 pg/ml	137 - 100,000 pg/ml	BMS80210FF
CRP	A9	0.07 ng/ml	0.1 - 70 ng/ml	BMS8288FF
EGF	B5	22.7 pg/ml	27 - 20,000 pg/ml	BMS82070FF
sE-selectin*	A9	1.2 ng/ml	4.0 - 3,000 ng/ml	BMS8205FF
FGF-2	B4	11 pg/ml	27 - 20,000 pg/ml	BMS8274FF
G-CSF	A11	3.4 pg/ml	34 - 25,000 pg/ml	BMS82001FF
HGF	A3	52 pg/ml	206 - 150,000 pg/ml	BMS82069FF
sICAM-1*	A11	5.3 ng/ml	5.4 - 4,000 ng/ml	BMS80201FF
sICAM-3*	A7	4.8 ng/ml	11 - 8,000 ng/ml	BMS8218FF
IFN-α	B3	8.06 pg/ml	27 - 20,000 pg/ml	BMS8216FF
IFN-γ	A4	1.6 pg/ml	27 - 20,000 pg/ml	BMS8228FF
IL-1α	B2	0.5 pg/ml	1.4 - 1,000 pg/ml	BMS80243FF
IL-1β	B8	4.2 pg/ml	27 - 20,000 pg/ml	BMS8224FF
IL-1RA	A11	96 pg/ml	137 - 100,000 pg/ml	BMS82080FF
IL-2	A6	16.4 pg/ml	27 - 20,000 pg/ml	BMS8221FF
IL-4	B6	20.8 pg/ml	27 - 20,000 pg/ml	BMS8225FF
IL-5	B7	1.6 pg/ml	27 - 20,000 pg/ml	BMS8278FF
IL-6	A12	1.2 pg/ml	27 - 20,000 pg/ml	BMS8213FF
IL-8	A10	0.5 pg/ml	13.7 - 10,000 pg/ml	BMS8204FF
IL-9	A10	1.5 pg/ml	2.7 - 2,000 pg/ml	BMS82081FF
IL-10	A8	1.9 pg/ml	27 - 20,000 pg/ml	BMS8215FF
IL-12 (p70)	A2	1.5 pg/ml	27 - 20,000 pg/ml	BMS8238FF
IL-13	B4	4.5 pg/ml	27 - 20,000 pg/ml	BMS8231FF
IL-17A	A5	2.5 pg/ml	13.7 - 10,000 pg/ml	BMS82017FF
IL-17AF	A5	16 pg/ml	27.4 - 20,000 pg/ml	BMS82082FF
IL-17F	A5	8.0 pg/ml	27 - 20,000 pg/ml	BMS82037FF
IL-18	B5	3.34 pg/ml	27 - 20,000 pg/ml	BMS8267FF
IL-22	A11	43.3 pg/ml	110 - 80,000 pg/ml	BMS82047FF
IL-23	A2	21.9 pg/ml	69 - 50,000 pg/ml	BMS82023FF
IP-10	B5	6.0 pg/ml	17 - 12,500 pg/ml	BMS8284FF
Iso-Insulin	B6	80 pg/ml	274 - 200,000 pg/ml	BMS82003FF
Leptin	B10	0.05 ng/ml	0.3 - 250 ng/ml	BMS82039/2FF
sL-selectin	A3	70 pg/ml	137 - 100,000 pg/ml	BMS80206FF
MCP-1	A7	2.2 pg/ml	41 - 30,000 pg/ml	BMS8281FF
MIG	B4	0.9 pg/ml	6.9 - 5,000 pg/ml	BMS8285FF
MIP-1α	A9	1.0 pg/ml	13.7 - 10,000 pg/ml	BMS82029FF
MIP-1β	A5	1.0 pg/ml	4.0 - 3,000 pg/ml	BMS82030FF
MMP-9	A4	95 pg/ml	0.1 - 100 ng/ml	BMS82016FF
MMP-13	B4	0.05 ng/ml	0.17 - 125 ng/ml	BMS82022FF
MPO	A9	0.02 ng/ml	0.14 - 100 ng/ml	BMS82038FF
NGF	A8	126.75 pg/ml	412 - 300,000 pg/ml	BMS82044FF
OPG	A6	7.9 pg/ml	27 - 20,000 pg/ml	BMS82021FF
Osteopontin (OPN)	A5	432 pg/ml	274 - 200,000 pg/ml	BMS82066FF
Osteocalcin	B5	6.9 pg/ml	27 - 20,000 pg/ml	BMS82020FF
PAI-1	B8	13.5 pg/ml	137 - 100,000 pg/ml	BMS82033FF
PDGF-BB	B3	3.4 pg/ml	21 - 15,000 pg/ml	BMS82071FF
sPECAM-1*	A5	0.8 ng/ml	4.0 - 3,000 ng/ml	BMS8229FF
sP-selectin	B4	1.2 ng/ml	2.8 - 2,000 ng/ml	BMS8219/2FF
RANKL	A3	16 pg/ml	55 - 40,000 pg/ml	BMS82005FF
RANTES	B10	25 pg/ml	41 - 30,000 pg/ml	BMS8287FF
Resistin	B4	1.7 pg/ml	55 - 40,000 pg/ml	BMS82040FF
TGF-β1	A3	10.0 pg/ml	13.7 - 10,000 pg/ml	BMS8249FF
TIMP-1	B5	28 pg/ml	137 - 100,000 pg/ml	BMS82018FF

Human Simplex Kits				
Analyte	Bead Set	Sensitivity	Standard Range	Cat. No.
TIMP-1	B5	28 pg/ml	137 - 100,000 pg/ml	BMS82018FF
TNF-α	B9	3.2 pg/ml	27 - 20,000 pg/ml	BMS8223FF
TNF-β	B10	2.4 pg/ml	27 - 20,000 pg/ml	BMS8202FF
sTNF-R1 (60kDa)	A5	0.08 ng/ml	0.14 - 100 ng/ml	BMS8203FF
t-PA	A5	4.8 pg/ml	27 - 20,000 pg/ml	BMS8258FF
sVCAM-1	B5	0.9 ng/ml	3.0 - 2,000 ng/ml	BMS8232/2FF
VEGF-A	B2	7.2 pg/ml	27 - 20,000 pg/ml	BMS80277FF
VEGF-D	A5	25.0 pg/ml	55 - 40,000 pg/ml	BMS82076FF

Mouse Simplex Kits				
Analyte	Bead Set	Sensitivity	Standard Range	Cat. No.
CXCL1/KC	A5	3.0 pg/ml	4.8 - 3,500 pg/ml	BMS86019FF
GM-CSF	B8	10.9 pg/ml	27 - 20,000 pg/ml	BMS8612FF
IFN-γ	B6	6.5 pg/ml	27 - 20,000 pg/ml	BMS8606/2FF
IL-1α	A4	15.7 pg/ml	27 - 20,000 pg/ml	BMS8611FF
IL-1β	B4	34.3 pg/ml	69 - 50,000 pg/ml	BMS86002FF
IL-2	A6	8.8 pg/ml	27 - 20,000 pg/ml	BMS8601FF
IL-4	B9	0.7 pg/ml	27 - 20,000 pg/ml	BMS8613FF
IL-5	A8	4.0 pg/ml	27 - 20,000 pg/ml	BMS8610FF
IL-6	A10	2.2 pg/ml	27 - 20,000 pg/ml	BMS8603FF
IL-10	A12	5.4 pg/ml	27 - 20,000 pg/ml	BMS8614/2FF
IL-12 (p70)	B5	8.6 pg/ml	27 - 20,000 pg/ml	BMS86004FF
IL-13	A2	9.3 pg/ml	27 - 20,000 pg/ml	BMS86015FF
IL-15/IL-15R	A11	5.0 pg/ml	6.9 - 5,000 pg/ml	BMS86023FF
IL-17A	B10	2.4 pg/ml	27 - 20,000 pg/ml	BMS86001FF
IL-17AF	B10	1.0 pg/ml	2.7 - 2,000 pg/ml	BMS8626FF
IL-17F	A7	6.0 pg/ml	27 - 20,000 pg/ml	BMS86020FF
IL-18	B3	116.9 pg/ml	412 - 300,000 pg/ml	BMS8618FF
IL-21	A9	5.0 pg/ml	27 - 20,000 pg/ml	BMS86021FF
IL-22	A5	5.5 pg/ml	6.9 - 5,000 pg/ml	BMS86016FF
IL-23	B5	14.5 pg/ml	55 - 40,000 pg/ml	BMS86017FF
IL-27	B2	31.5 pg/ml	69 - 50,000 pg/ml	BMS86024FF
IL-33 (coming soon)		see www.eBioscience.com		BMS86025FF
IP-10	A3	9.8 pg/ml	41 - 30,000 pg/ml	BMS86018FF
MCP-1	A9	42.0 pg/ml	55 - 40,000 pg/ml	BMS86005FF
MCP-3	A7	1.4 pg/ml	27 - 20,000 pg/ml	BMS86006FF
MIP-1α	A11	1.8 pg/ml	27 - 20,000 pg/ml	BMS86013FF
MIP-1β	B2	14.9 pg/ml	27 - 20,000 pg/ml	BMS86014FF
RANTES	B4	6.1 pg/ml	27 - 20,000 pg/ml	BMS86009FF
TGF-β1	A3	10.0 pg/ml	13.7 - 10,000 pg/ml	BMS8608FF
TNF-α	B7	2.1 pg/ml	27 - 20,000 pg/ml	BMS8607/2FF

Rat Simplex Kits				
Analyte	Bead Set	Sensitivity	Standard Range	Cat. No.
GM-CSF	B9	5.0 pg/ml	27 - 20,000 pg/ml	BMS8633FF
IFN-γ	B8	0.6 pg/ml	13.7 - 10,000 pg/ml	BMS8621/2FF
IL-1α	A6	8.5 pg/ml	27 - 20,000 pg/ml	BMS8627FF
IL-4	B10	0.3 pg/ml	3.0 - 2,000 pg/ml	BMS8628FF
IL-17A	A10	5.0 pg/ml	7 - 5,000 pg/ml	BMS8635FF
MCP-1	A8	0.5 pg/ml	27 - 20,000 pg/ml	BMS8631FF
TNF-α	A12	4.3 pg/ml	27 - 20,000 pg/ml	BMS8622FF

FlowCytomix™ Basic Kits	
Product	Cat. No.
Human Basic Kit (required to run Human Simplex Kits)	BMS8420FF
Human Basic Kit PE (required to run Human Simplex Kits PE*)	BMS8421FF
Mouse/Rat Basic Kit	BMS8440FF

\*Human Simplex Kits PE, NOTE: When PE Kits are combined with other Simplex Kits, only the Basic Kit BMS8420FF is required.

## Possible Combinations

For detailed information about possible combinations of FlowCytomix™ Kits please contact: [europa@eBioscience.com](mailto:europa@eBioscience.com)

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