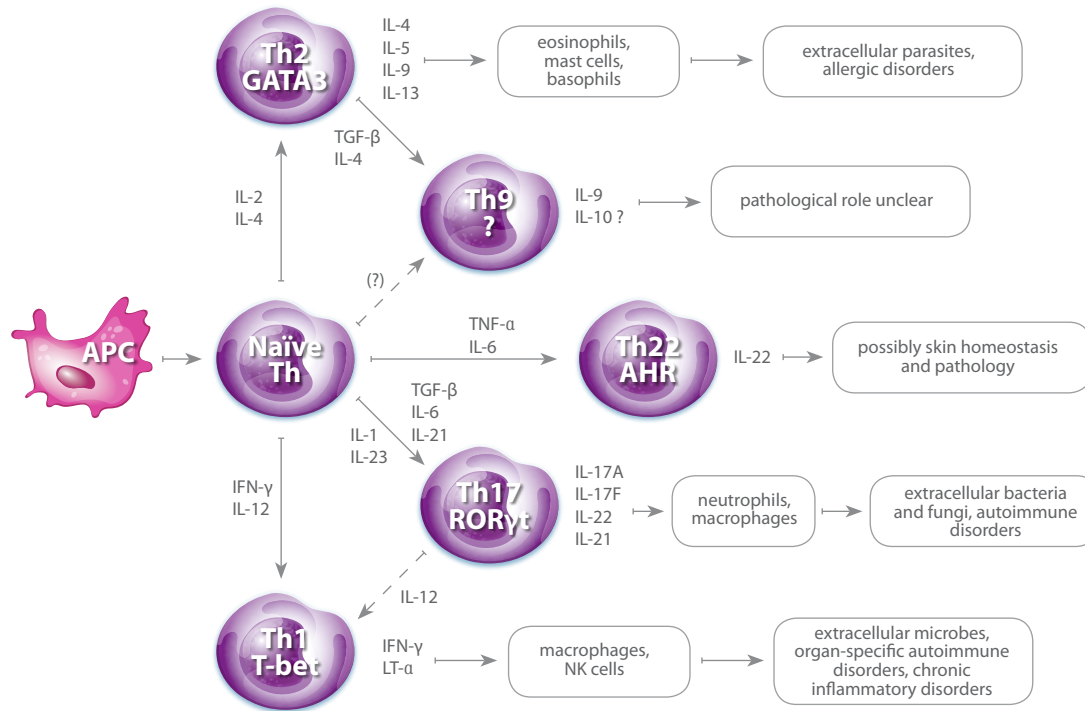


Th Cell Differentiation

Th1/Th2/Th9/Th17/Th22

FlowCytomix™ Multiple Analyte Detection System



- 25ulの細胞培養上清、血清、血漿から同時に20種類の解析ができます。
- 測定したい項目のパネルをカスタマイズできます。
- 解析ソフトは無料です。

IFNおよびIL-12の存在下で、未感作のTh細胞はT-box expressed in T cells(T-bet)を発現し、IFN- γ およびlymphotaxin- α (LT- α)を産生するTh1細胞に分化します。Th1細胞は細胞内微生物から身を守り、臓器特異的の自己免疫疾患および他の慢性炎症疾患の発病に重要に関わっていると考えられています。IL-2とIL-4は転写因子GATA binding protein-3(GATA-3)の発現とTh2細胞への分化を誘導します。この細胞のIL-4、IL-5、IL-9、IL-13の産生は細胞外微生物から身を守ってくれますが、アレルギー疾患にも関与します。IL-4およびTGF- β の存在下で、Th2細胞はTh9細胞にも分化でき、IL-9およびIL-10を産生します。

TNF- α およびIL-6の存在下では、未感作のTh細胞はaryl hydrocarbon receptor(AHR)を発現しているTh22細胞へ分化します。この細胞はIL-22を分泌し皮膚の恒常性と病変に重要に働いています。TGF- β 、IL-6およびIL-21(マウスにおいて)の存在下、またはIL-1およびIL-23(ヒトにおいて)の存在下では、未感作のTh細胞はretinoic acid-related orphan receptor (ROR) γ tを発現します。この細胞はIL-6、IL-17A、IL-17F、IL-20、IL-21、IL-22、IL-26、TNF- α 、CCL20を産生し、細胞外の細菌および真菌から身を守り、自己免疫疾患にも関与できるTh17細胞に分化します。

Reference:

Annunziato F and Romagnani S.
Arthritis Research & Therapy 2009;11:257.

2010 | July

MULTIPLEX KITS

- Human
Th1/Th2/Th9/Th17/Th22 13plex
- Mouse
Th1/Th2/Th17/Th22 13plex

SIMPLEX KITS

- Human
IL-9
IL-17A
IL-17F
IL-22
IL-23
- Mouse
IL-17A
IL-17F
IL-21
IL-22
IL-23
IL-27
- Rat
IL-17A

Please see reverse for more
Simplex Kits



Th Cell Differentiation: Th1/ Th2/ Th9/ Th17/ Th22

FlowCytomix™ Multiplex Kits

Product	Cat. No.	Analytes
Human Th1/Th2/Th9/Th17/Th22 13plex	BMS817FF	IFN- γ , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-9, IL-10, IL-12(p70), IL-13, IL-17A, IL-22, TNF- α
Mouse Th1/Th2/Th17/Th22 13plex	BMS822FF	IFN- γ , IL-1 α , IL-2, IL-4, IL-5, IL-6, IL-10, IL-13, IL-17A, IL-21, IL-22, IL-27, TNF- α

Human FlowCytomix™ Simplex Kits for Th1/Th2/Th9/Th17/Th22 research

Analyte	Cat. No.	Bead Set	Standard Range
IFN- γ	BMS8228FF	A4	27 - 20,000 pg/ml
IL-1 α	BMS80243FF	B2	1.4 - 1,000 pg/ml
IL-1 β	BMS8224FF	B8	27 - 20,000 pg/ml
IL-2	BMS8221FF	A6	27 - 20,000 pg/ml
IL-4	BMS8225FF	B6	27 - 20,000 pg/ml
IL-5	BMS8278FF	B7	27 - 20,000 pg/ml
IL-6	BMS8213FF	A12	27 - 20,000 pg/ml
IL-9	BMS82081FF	A3	2.7 - 2,000 pg/ml
IL-10	BMS8215FF	A8	27 - 20,000 pg/ml
IL-12 (p70)	BMS8238FF	A2	27 - 20,000 pg/ml
IL-13	BMS8231FF	B4	27 - 20,000 pg/ml
IL-17A	BMS82017FF	A5	13.7 - 10,000 pg/ml
IL-17F	BMS82037FF	A5	27 - 20,000 pg/ml
IL-22	BMS82047FF	A11	110 - 80,000 pg/ml
IL-23	BMS82023FF	A2	69 - 50,000 pg/ml
TGF- β 1	BMS8249FF	A3	13.7 - 10,000 pg/ml
TNF- α	BMS8223FF	B9	27 - 20,000 pg/ml

Mouse FlowCytomix™ Simplex Kits for Th1/Th2/Th17/Th22 research

Analyte	Cat. No.	Bead Set	Standard Range
IFN- γ	BMS8606/2FF	B6	27 - 20,000 pg/ml
IL-1 α	BMS8611FF	A4	27 - 20,000 pg/ml
IL-1 β	BMS86002FF	B4	69 - 50,000 pg/ml
IL-2	BMS8601FF	A6	27 - 20,000 pg/ml
IL-4	BMS8613FF	B9	27 - 20,000 pg/ml
IL-5	BMS8610FF	A8	27 - 20,000 pg/ml
IL-6	BMS8603FF	A10	27 - 20,000 pg/ml
IL-10	BMS8614/2FF	A12	27 - 20,000 pg/ml
IL-12 (p70)	BMS86004FF	B5	27 - 20,000 pg/ml
IL-13	BMS86015FF	A2	27 - 20,000 pg/ml
IL-17A	BMS86001FF	B10	27 - 20,000 pg/ml
IL-17F	BMS86020FF	A7	27 - 20,000 pg/ml
IL-21	BMS86021FF	A9	27 - 20,000 pg/ml
IL-22	BMS86016FF	A5	6.9 - 5,000 pg/ml
IL-23	BMS86017FF	B5	55 - 40,000 pg/ml
IL-27	BMS86024FF	B2	69 - 50,000 pg/ml
TGF- β 1	BMS8608FF	A3	13.7 - 10,000 pg/ml
TNF- α	BMS8607/2FF	B7	27 - 20,000 pg/ml

Rat FlowCytomix™ Simplex Kits for Th1/Th2/Th17 research

Analyte	Cat. No.	Bead Set	Standard Range
IFN- γ	BMS8621/2FF	B8	13.7 - 10,000 pg/ml
IL-1 α	BMS8627FF	A6	27 - 20,000 pg/ml
IL-4	BMS8628FF	B10	3.0 - 2,000 pg/ml
IL-17A	BMS8635FF	A10	7 - 5,000 pg/ml
TNF- α	BMS8622FF	A12	27 - 20,000 pg/ml

FlowCytomix™ Basic Kits

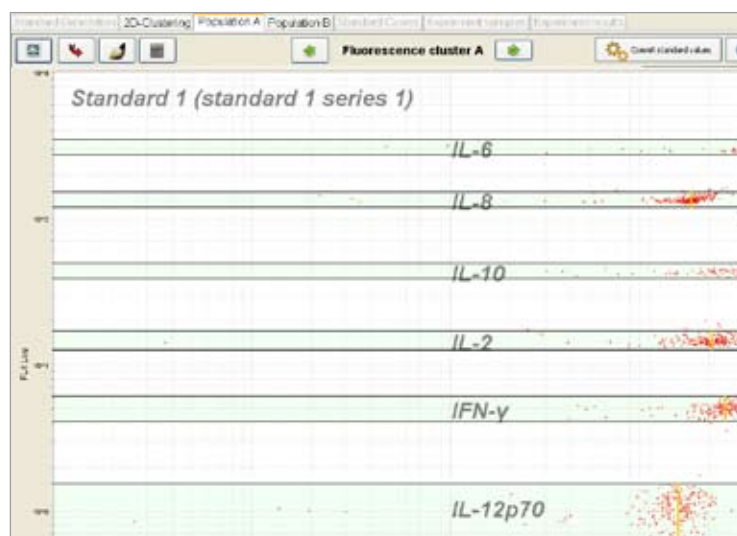
Products	Cat. No.	
Human Basic Kit	BMS8420FF	
Mouse/Rat Basic Kit	BMS8440FF	

A Basic Kit is needed in order to use Simplex Kits.

FlowCytomix™ Pro Software - Analyze your data for free!

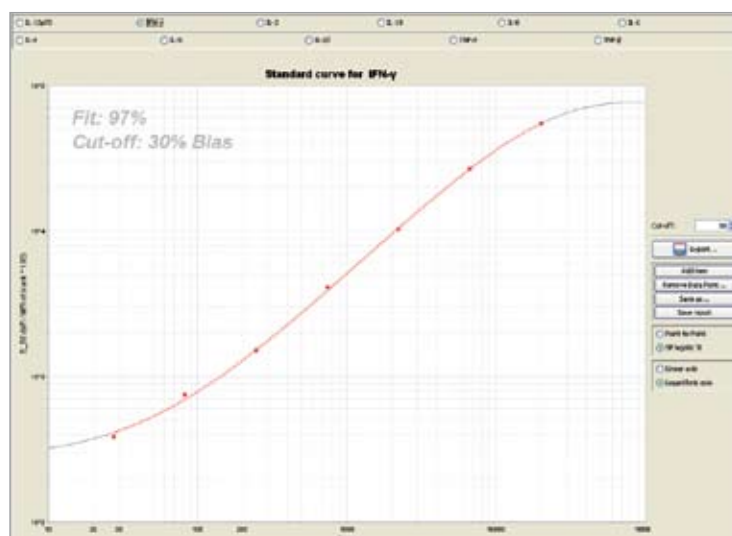
FlowCytomix™ Pro Software is easy to use and allows users to obtain results in a minimum of time.

The software is complimentary and can be downloaded from www.bendermedsystems.com/software-download.



Fluorescence clusters A and B

The bead clusters A and B contain several bead sets, each of them corresponding to a particular analyte. Two pages display the fluorescence intensities of these bead populations. The software automatically provides gray lines to separate the bead sets. Gates may be readjusted manually.



Standard curves

FlowCytomix™ Pro establishes standard curves, which you may evaluate and manually adjust for later calculation of analyte concentrations.

■ 輸入販売元



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