

1. PMBC

2. Isolate

3. Stimulate

4. Analyze

h/m Erythrocyte Lysing Kit

T Cell Enrichment Column

h/m T-Activator CD3/CD28 Cytokines

Abs for FACS, ICC, WB... Quantikine ELISA

T Cells

Cell		PBMC	Isolate	Stimulate		Analyze
T helper cell (CD4+)	Th1	h/m Erythrocyte Lysing Kit (#WL1000/ WL2000)	h/m T Cell Enrichment Column (#HTCC/ HCD4C/ MTCC/ MCD4C)	Dynabeads h/m T-Activator CD3/CD28 (#11131D/ 11132D/ 11452D/ 11453D)	h/m IL-12 IL-18 IL-27 IFN- γ	h/m Th1 Cell 4-ColorFlow Cytometry Kit (#FMC009/FMC010) Cell Surface - h/m CCR1, CCR5, CXCR3, IFN- γ R, IL-12Rb2, IL-18Ra, TCCR/WSX-1 Transcription Factors - h/m STAT1, STAT4, T-bet/TBX21 Secretes - h/m IFN- γ , IL-2, -10, TNF-a, b, GM-CSF
	Th2				h/m IL-4 IL-25 IL-33 TSLP	h/m Th2 Cell 4-ColorFlow Cytometry Kit (#FMC011/FMC012) Cell Surface - h/m CCR3, CCR4, CCR8, CXCR4, IFN- γ R, IL-4Ra, IL-17BR/IL-17RB, ST2/IL-1R4, TSLPR Transcription Factors - h/m GATA-3, IRF4, STAT5, STAT6 Secretes - h/m IL-4, 5, 9, 10, 13, 21, 31, 3
	Th22				h/m IL-6 TGF- β TNF- α	Cell Surface - h/m CCR4, CCR6, CCR10, IL-6Ra, IL-21R, TGF- β R2+ Transcription Factors - h/m AHR, Batf, STAT3 Secretes - h/m CCL7/MCP-3, CCL15/MIP-1d, FGFs, IL-10, -13, -21, -22, TNF- α
	Th9				h/m IL-4 TGF- β	Cell Surface - h/m IL-4Ra, IL-17BR/IL-17RB, TGF- β R2 Transcription Factors - h/m IRF4, PU.1 Secretes - h/m IL-9, -10
	Treg				h/m TGF- β IL-2	h/m Regulatory T Cell 3-ColorFlow Kit (#FMC021/FMC022) h/m/r FoxP3 Allophycocyanin Affinity Purified PAb (#IC3240A) Cell Surface - h/m 5' Nucleotidase/CD73, CD5, CTLA-4, LAP, CD39/ENTPD1, Folate Receptor 4(FOLR4), GITR/TNFRSF18, IL-2Ra/CD25, IntegrinE/CD103, L-Selectin/CD62L, LRRC32/GARP, LAG-3/CD223, OX40/CD134 Transcription Factors - h/m FoxP3, STAT5 Secretes - h/m Galectin-1, IL-10, 35, TGF- β
	Th17				h/m TGF- β IL-6 IL-21 IL-23 IL-1 β	h/m Th17 4-ColorFlow Cytometry Kit (#FMC007) hPhospho-STAT3 (Y705) Affinity Purified PAb (#AF4607) h/m/r STAT3 MAAb (Clone 232209), Mouse IgG2B (#MAB1799) h/m Phospho-STAT3 (Y705) DuoSet IC (#DYC4607B-2) Cell Surface - h/m CCR4, CCR6, IL-1R, IL-6Ra, IL-21R, IL-23R, TGF- β R2 Transcription Factors - h/m Batf, IRF4, RORa, ROR γ t/RORC2, STAT3 Secretes - h/m CCL20/MIP-3a, IL-17A, 17F, 21, 22, 26, 6
Treg - Th17 Interaction						h/m IL-6, 23, TGF- β , IL-2 \rightleftharpoons h/m IL-2, TGF- β , Retinoic Acid

- CTL (Cytotoxic T cell) CD8+/ Follicular helper T (Tfh) cell
- **PBMC**; h/m Erythrocyte Lysing Kit (#WL1000/ WL2000)
- **Isolate**; h/m T Cell Enrichment Column (#HTCC/ HCD8C/ MTCC/ MCD8C)
- Natural killer T (NKT) cell - **PBMC** ; h/m Erythrocyte Lysing Kit (#WL1000/ WL2000)

B/ NK Cells

Cell	PBMC	Isolate	Stimulate	Analyze
B cell	h/m Erythrocyte Lysing Kit	h/m/r B Cell Isolation Kit (#MAGH103/MAGM204/MAGR303)	h/m CD40L	Secretes - h/m IL-2, IL-4, IL-5
NK cell	(#WL1000/ WL2000)	h/m NK Cell Isolation Kit (#MAGH109)	h/m IL-2	

- Monocyte-Macrophage - **Analyze**; **Secretes** - h/m IL-12, IL-18

- Basophil - **Analyze**; Buhlmann Flow CAST (CCR3-PE)