

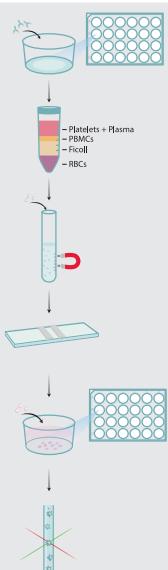
# CellXVivo™ kit

## Mouse Th17 Cell Differentiation

### 선택의 이유

- High Quality R&D Systems Cytokine 포함
- Th17 cell로 분화를 위한 최적의 조건!!
- Validated Protocol - 검증 된 제품
- 추가 장비 필요 없이 kit 하나면 O.K
- High Differentiation Yield

#### 1. Anti CD3 Abs Coat



#### 2. PBMC 분리

#### 3. CD4+ T cell분리 (using magnetic cell selection)

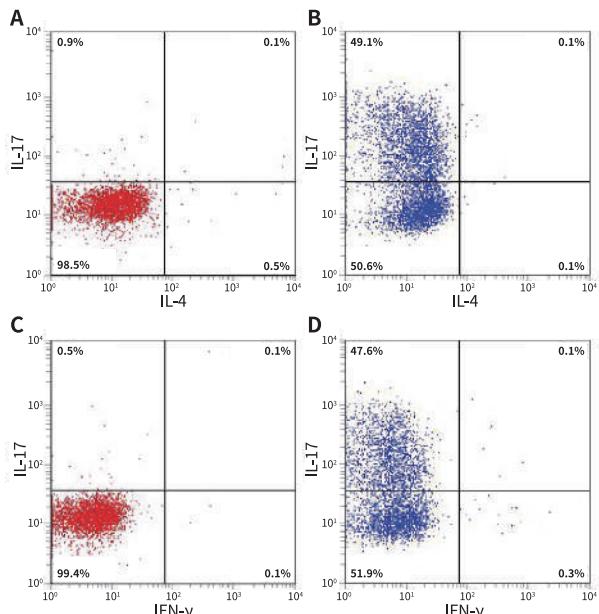
#### 4. Cell Count

#### 5. CD3 & CD280 pre-coating된 plate에 1-2 X 10<sup>5</sup> naive CD4+ T cell seeding

#### 6. 2-3일 마다 media change

#### 7. Mitogen으로 re-stimulation

#### 8. Flow Cytometry 이용 Th17 cell Differentiation verify



Mouse PBMC에서 native CD4+ Tcell 분리 후,  
Th17 Cell 분화시킨 결과

A, C: 분화 시키지 않은 그룹,

B, D: 분화 시킨 그룹

결과를 보면 IL-17 발현 만 증가된 걸로 보아

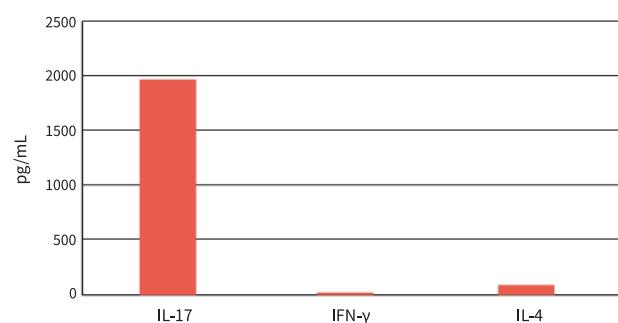
Th17로 분화가 잘 되었음을 알 수 있다

### Order Information & Related Products

#### #CDK017 mouse Th17 Cell Differentiation Kit

<24well 기준 32 tests. 96well 기준 160 tests 기준>

Cat #	Products
M1700	Mouse IL-17 Quantikine® ELISA Kit
DY421	Mouse IL-17 DuoSet® ELISA
MIF00	Mouse IFN-γ Quantikine® ELISA Kit
DY485	Mouse IFN-γ DuoSet® ELISA
M4000B	Mouse IL-4 Quantikine® ELISA Kit
DY404	Mouse IL-4 DuoSet® ELISA Kit
5476	Cell Activation Cocktail ( Tocris )
FAB554A / IC013A	Mouse CD4 APC-conjugated Antibody / Rat IgG2B APC-conjugated Antibody Isotype Control
NBP1-72027 / IC005P	Mouse IL-17/IL-17A PE-conjugated Antibody / Rat IgG1 PE-conjugated Antibody Isotype Control
IC485A / IC006A	Mouse IFN-γ APC-conjugated Antibody / Rat IgG2A Allophycocyanin Isotype Control
NBP2-52656 / IC1051A	Mouse IL-4 APC-conjugated Antibody / Rabbit IgG APC-conjugated Antibody Isotype Control
FC009	Flow Cytometry Fixation & Permeabilization Buffer Kit 1



Mouse 말초혈액의 native CD4+ T cell을  
Mouse Th17 Cell Differentiation Kit를 이용하여  
Th17 polarization 조건에서 10일간 분화시킴.  
ELISA를 이용, IL-17, IFN-γ, IL-4를 정량분석한 결과  
IL-17이 압도적으로 많은 것을 확인할 수 있다.

**R&D SYSTEMS**  
a biotechne brand



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