

## Anti-Human CD4, PE

Please read the datasheet carefully prior to use.

Cat. No. HF142

Version No. Version 2.0

Storage: At 2-8°C in dark for one year, avoid freezing.

### Description

CD4 is a single-chain type I transmembrane glycoprotein with molecular weight of 55 kD, which is mainly expressed in helper T cells, NKT cells, monocytes, macrophages and dendritic cells etc. CD4 is a co-receptor for T-cell receptor (TCR) to recognize antigens, which binds to the non-polypeptide region of MHC class II molecules, and participates in signal transduction during TCR recognize antigen. CD4 is also the main receptor for HIV. In macrophages or NKT cells, CD4 regulates cell differentiation, activation, cytokine expression and cell migration through TCR/LCK-independent signaling pathway. After purification of CD4 monoclonal antibody by affinity chromatography, the antibodies were conjugated with fluorescein PE under optimal conditions and used for flow cytometric detection of CD4 on cell surface.

### Product Information

Specificity: Human

Host Species: Mouse

Antibody Type: Monoclonal

Clone Number: Trans-6A2

Subtype: Mouse IgG2b,  $\kappa$

Label: PE (Ex: 488-561 nm; Em: 578 nm)

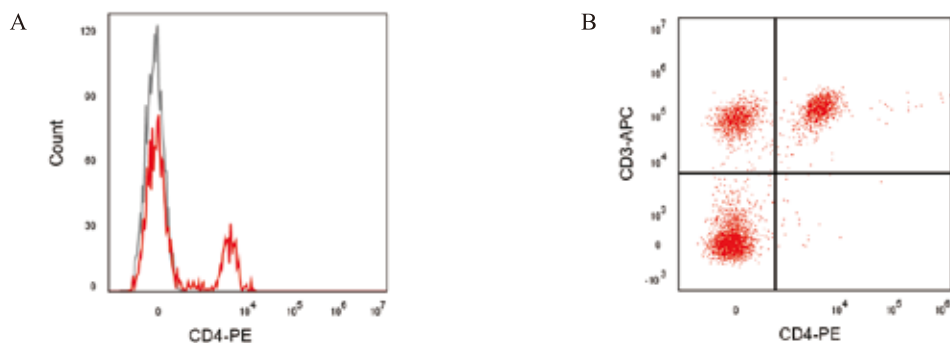
Stock Solution: Phosphate buffered saline (pH 7.2) containing 1% BSA and 0.05% ProClin 300

### Kit Contents

Component	HF142-01	HF142-02
Anti-Human CD4, PE	25 tests	50 tests

### Applications

For flow cytometric staining, the recommended usage is below: 5  $\mu$ l antibody per  $1 \times 10^6$  cells, and the staining volume is 100  $\mu$ l; Or staining with 5  $\mu$ l antibody per 100  $\mu$ l whole blood.



A: The staining result of human peripheral blood lymphocyte treated with PE Mouse IgG2b,  $\kappa$  Isotype Ctrl (gray line) or Anti-Human CD4, PE (red line)

B: The co-staining result of human peripheral blood lymphocyte treated with Anti-Human CD4, PE and Anti-Human CD3, APC (TransGen, Cat: HF154)

### Notes

- As the optimal concentration of flow cytometric antibody is affected by the number of cells, staining temperature, staining time and other factors, it is recommended that customers optimize titration before formal experiment to obtain the best results.
- For your health, please wear gloves and standardize the experimental operation.



#### Related Products

Cat. No.	Product Name	Specification
FB101-01	RBC Lysis Buffer (1×)	100 ml
FB102-02	Human Peripheral Blood Lymphocyte Separation Solution	200 ml
FB103-01	Staining Buffer (1×)	500 ml
FB104-01	Permeabilization Buffer (10×)	100 ml
FG701-01	PBS (1×)	500 ml
HF151-01/02	Anti-Human CD3, FITC	25T/50T
HF152-01/02	Anti-Human CD3, PE	25T/50T
HF154-01/02	Anti-Human CD3, APC	25T/50T
HF141-01/02	Anti-Human CD4, FITC	25T/50T
HF144-01/02	Anti-Human CD4, APC	25T/50T
HF161-01/02	Anti-Human CD8a, FITC	25T/50T
HF162-01/02	Anti-Human CD8a, PE	25T/50T
HF164-01/02	Anti-Human CD8a, APC	25T/50T
HF171-01/02	Anti-Human IFN- $\gamma$ , FITC	25T/50T
HF172-01/02	Anti-Human IFN- $\gamma$ , PE	25T/50T
HF174-01/02	Anti-Human IFN- $\gamma$ , APC	25T/50T

For more information about flow products, please read the official website of TransGen Biotech (<https://www.transgenbiotech.com/> ) or contact us for consulting.

FOR RESEARCH USE ONLY

