

For Research Use Only

# Human CD4 Magnetic Beads Kit

Catalog Number: KMS002



## Description

CD4 is a coreceptor of T cell receptor in T lymphocytes to recognize antigens displayed by an antigen presenting cell in the context of class II MHC molecules. It is observed that 25%-65% human lymphocytes are CD4 positive. Human CD4 Magnetic Beads Kit is used for isolation or depletion of human CD4 T lymphocytes from PBMC, whole blood, or other sample types. Following incubation with biotinylated human CD4 antibody and Streptavidin magnetic beads, the cell sample is placed on a magnet. CD4+ cells remain attached to magnetic beads after separation and can be used for downstream applications, such as cell expansion, but not suitable for flow cytometry. CD4- cells remain in supernatant and can also be used for further application.

## Components

KMS002-10:  
· MS001-10: 100µL 10mg/mL streptavidin magnetic beads  
· MS65143-10: 100µL 0.1mg/mL Biotin-CD4 (clone: RPA-T4)  
KMS002-100:  
· MS001-100: 1mL 10mg/mL streptavidin magnetic beads  
· MS65143-100: 1mL 0.1mg/mL Biotin-CD4 (clone: RPA-T4)

## Package

10test/100test

## Storage

2-8°C

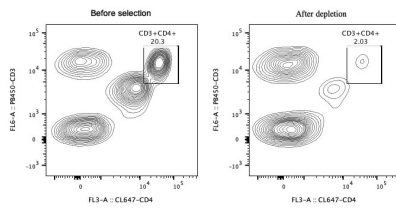
## Reactivity

Human

## Recommend usage

10µL Biotin-CD4 antibody and 10µL streptavidin beads for  $1 \times 10^7$  cells

## Validation Data



**Representative example of enrichment and depletion:** Following depletion of CD4<sup>+</sup> cells, supernatant cell suspension was stained with PB450-CD3(clone: HIT3a) and CL647-CD4(clone: OKT4). CD45<sup>+</sup> cells are gated in the analysis. Left panel: CD3<sup>+</sup>CD4<sup>+</sup> cells before selection. Right panel: CD3<sup>+</sup>CD4<sup>+</sup> cells after depletion. Human CD... magnetic beads kit is tested using PBMC from three donors.

For technical support and original validation data for this product please contact

T: 1 (888) 4PTGLAB(1-888-478-4522)(toll free in USA), or  
1(312) 455-8498(outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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