

For Research Use Only

# Human CD4 Isolation Kit

Catalog Number: KMS302



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## Description

CD4 is a 55 kDa glycoprotein that is a co-receptor for T cell receptor in T lymphocytes. CD4+ cells are essential for achieving effective immune response by associating with class II MHC molecules. 25%-65% human lymphocytes are CD4+. Human CD4 Isolation Kit is designed to isolate untouched CD4+ T helper lymphocytes. It contains a biotin labeled antibody cocktail and streptavidin conjugated magnetic beads. Through incubation of samples with biotin labeled antibody cocktail followed by incubation of streptavidin beads, the magnetically labeled non CD4+ cells are retained in the tube by magnetic separator. The untouched CD4+ T helper cells are collected in supernatant. Any downstream application can be performed on CD4+ cells after separation, such as Flow Cytometry and *in-vitro* culture and expansion.

## Components

KMS302-10:

· MS302A-10: 300 µL Human CD4 Isolation Biotin Antibody Cocktail (CD8, CD19, CD14, CD56, CD20, CD11b, CD16, CD36, CD235a, CD123, TCR )

· MS302B-10: 300µL streptavidin magnetic beads

KMS302-100:

· MS302A-100: 3mL Human CD4 Selection Biotin Antibody Cocktail (CD8, CD19, CD14, CD56, CD20, CD11b, CD16, CD36, CD235a, CD123, TCR )

· MS302B-100: 3mL streptavidin magnetic beads

## Package

10test/100test

## Storage

2-8°C

## Storage buffer

PBS, pH7.4, 0.2% BSA and 0.05% Sodium Azide

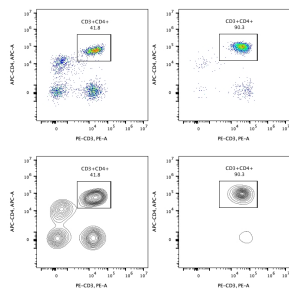
## Reactivity

Human

## Recommend usage

30µL biotin labeled antibody cocktail and 30µL streptavidin beads for  $1 \times 10^7$  cells.

## Results



**Representative example of enrichment:** Following cell separation (enrichment), cell suspension was stained with FITC-CD45(F 10-89-4), PE-CD3(UCHT1) and APC-CD4(OIKT4) antibodies. All CD45+ cells are gated in the analysis. Left panel: CD3+CD4+ cells before selection. Right panel: CD3+CD4+ cells after selection. Human CD4 Isolation kit is tested using... PBMC from three donors.

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

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