

Human CD4 Isolation Kit

Catalog Number: KMS302

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 γ δ)
 · 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 γ δ)
 · 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

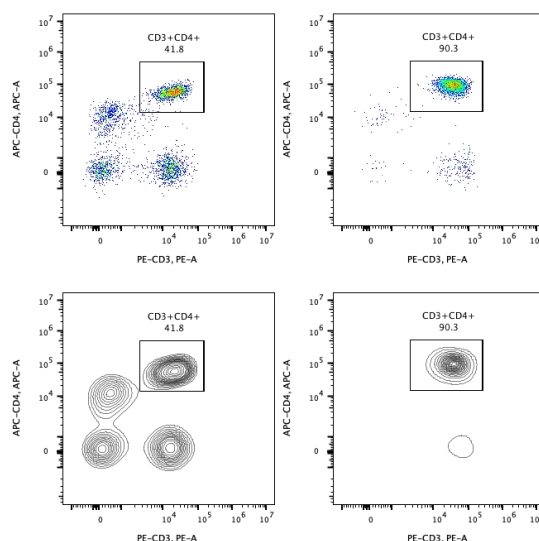
Human

Recommend usage

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

Results

Representative example of enrichment



Following cell separation (enrichment), cell suspension was stained with FITC-CD45(F10-89-4), PE-CD3(UCHT1) and APC-CD4(OKT4) 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 selection kit is tested using PBMC from three donors.

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

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