For Research Use Only

Human CD4 T Cell 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 T Cell 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 T Cell 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 T Cell Isolation 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

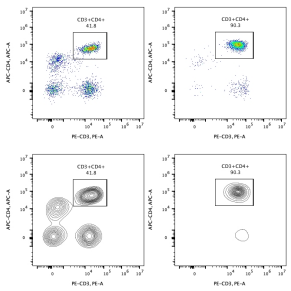
Reactivity

Human

Recommend usage

30µL biotin labeled antibody cocktail and 30µL streptavidin beads for $1*10^7$ 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 T Cell Isolation Kit is tested... using PBMC from three donors.