For Research Use Only.

Human CD4 Magnetic Beads Kit

proteintech®
www.ptgcn.com

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

Storage buffer

Streptavidin beads: PBS, pH7.4, 0.2% BSA and 0.05% Sodium Azide
Biotin Antibody: PBS, pH7.4, 0.2% BSA and 0.09% Sodium Azide

Reactivity

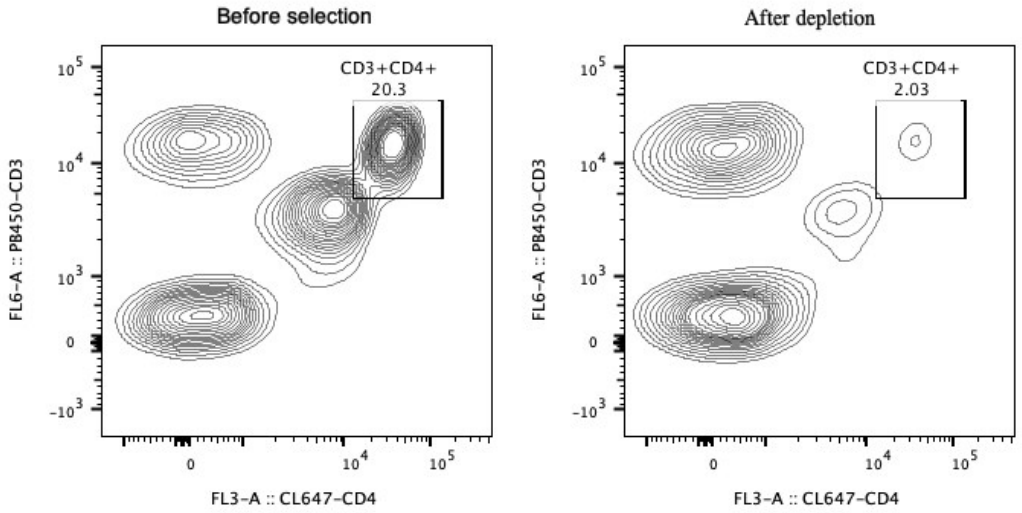
Human

Recommend usage

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

Results

Representative example of depletion



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

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

T: 027-87531629 E: Proteintech-CN@ptglab.com W: ptgcn.com