For Research Use Only

Human CD3 Magnetic Beads Kit

Catalog Number: KMS001

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Description

CD3 is a multimeric protein associated with T cell receptor (TCR) to form a complex involved in antigen recognition and signal transduction. 45%-70% human peripheral blood mononuclear cells (PBMC) express CD3. Human CD3 Magnetic Beads Kit is used for isolation or depletion of human CD3 T lymphocytes from PBMC, whole blood, or other sample types. Following incubation with biotinylated human CD3 antibody and Streptavidin magnetic beads, the cell sample is placed on a magnet. CD3+ cells remain attached to magnetic beads after separation and can be used for downstream applications, such as in cell expansion. CD3- cells remain in supernatant and can also be used for further applications.

Components

KMS001-10:
- MS001-10: 100μL 10mg/mL streptavidin magnetic beads
- MS65133-10: 100μL 0.1mg/mL Biotin-CD3 (clone: OKT3)

KMS001-100:
- MS001-100: 1mL 10mg/mL streptavidin magnetic beads
- MS65133-100: 1mL 0.1mg/mL Biotin-CD3 (clone: OKT3)

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

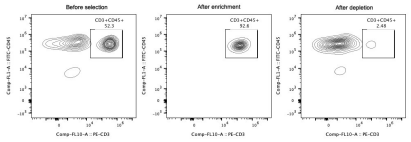
Reactivity

Human

Recommend usage

10μL Biotin-CD3 antibody and 10μL streptavidin beads for $1*10^7$ cells

Results



Representative example of enrichment and depletion: Following cell separation, cell suspension was stained with FITC-CD45(F10-89-4) and PE-CD3(UCHT1) antibodies. All viable cells are gated in the analysis. Left panel: CD3+CD45+ cells before selection. Middle panel: CD3+CD45+ cells after enrichment. Right panel: CD3+CD45+ cells... after depletion. Human CD3 magnetic beads kit is tested using PBMC from three donors.