For Research Use Only.

Human CD19 Magnetic Beads Kit

Catalog Number:KMS004

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Description

CD19 is a 95kDa, type I transmembrane glycoprotein member of the immunoglobin superfamily. It is expressed by B cells and follicular dendritic cells and regulates B-lineage commitment during hematopoietic stem cell differentiation. 6%-23% human PBMC are CD19 positive. Human CD19 Magnetic Beads Kit can be used for isolation or depletion of human CD19 B lymphocytes from PBMC, whole blood, or other sample types. Following incubation with biotinylated human CD19 antibody and Streptavidin magnetic beads, the cell sample is placed on a magnet. CD19+ cells remain attached to magnetic beads after separation and can be used for downstream applications, such as in expansion of cells, but are not suitable for flow cytometry analysis. CD19- cells remain in supernatant and can also be used for further applications.

Components

KMS004-10:
· MS001-10: 100μL 10mg/mL streptavidin magnetic beads
· MS65197-10: 100μL 0.1mg/mL Biotin-CD19 (clone: 4G7)
KMS004-100:
· MS001-100: 1mL 10mg/mL streptavidin magnetic beads
· MS65197-100: 1mL 0.1mg/mL Biotin-CD19 (clone: 4G7)

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

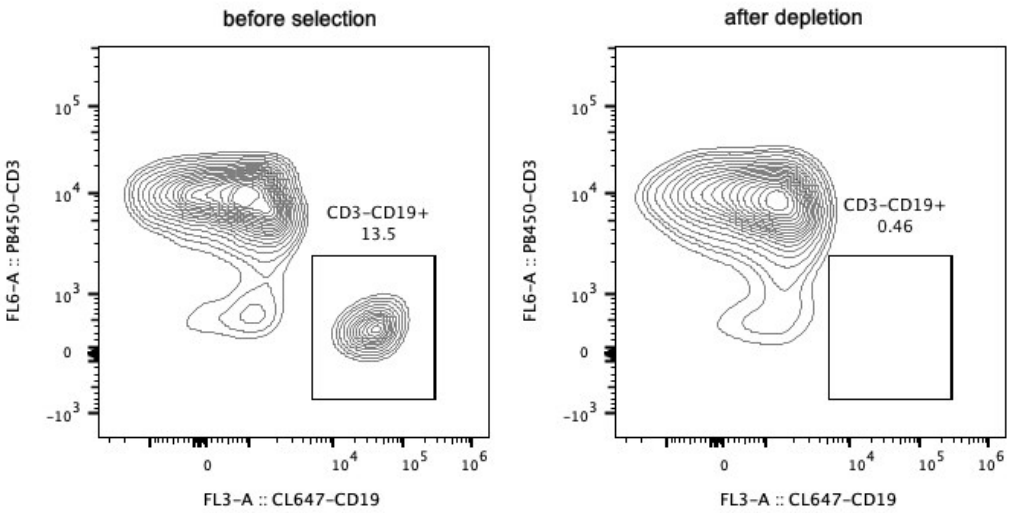
Human

Recommend usage

10μL Biotin-CD19 antibody and 10μL streptavidin beads for $1*10^7$ cells.

Results

Representative example of depletion



Following depletion of CD19+cells, supernatant suspension was stained with PB450-CD3 (clone: HIT3a) and CL647-CD19 (cloneSJ25C). CD45+ cells are gated in the analysis. Left panel: CD3-CD19+ cells before selection. Right panel: CD3-CD19+ cells after depletion. Human CD19 magnetic bead kit is tested using PBMC from three different donors.

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

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