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Human CD8 Magnetic Beads Kit

Catalog#/Size: KMS003-10/10 test
KMS003-100/100 test

Description

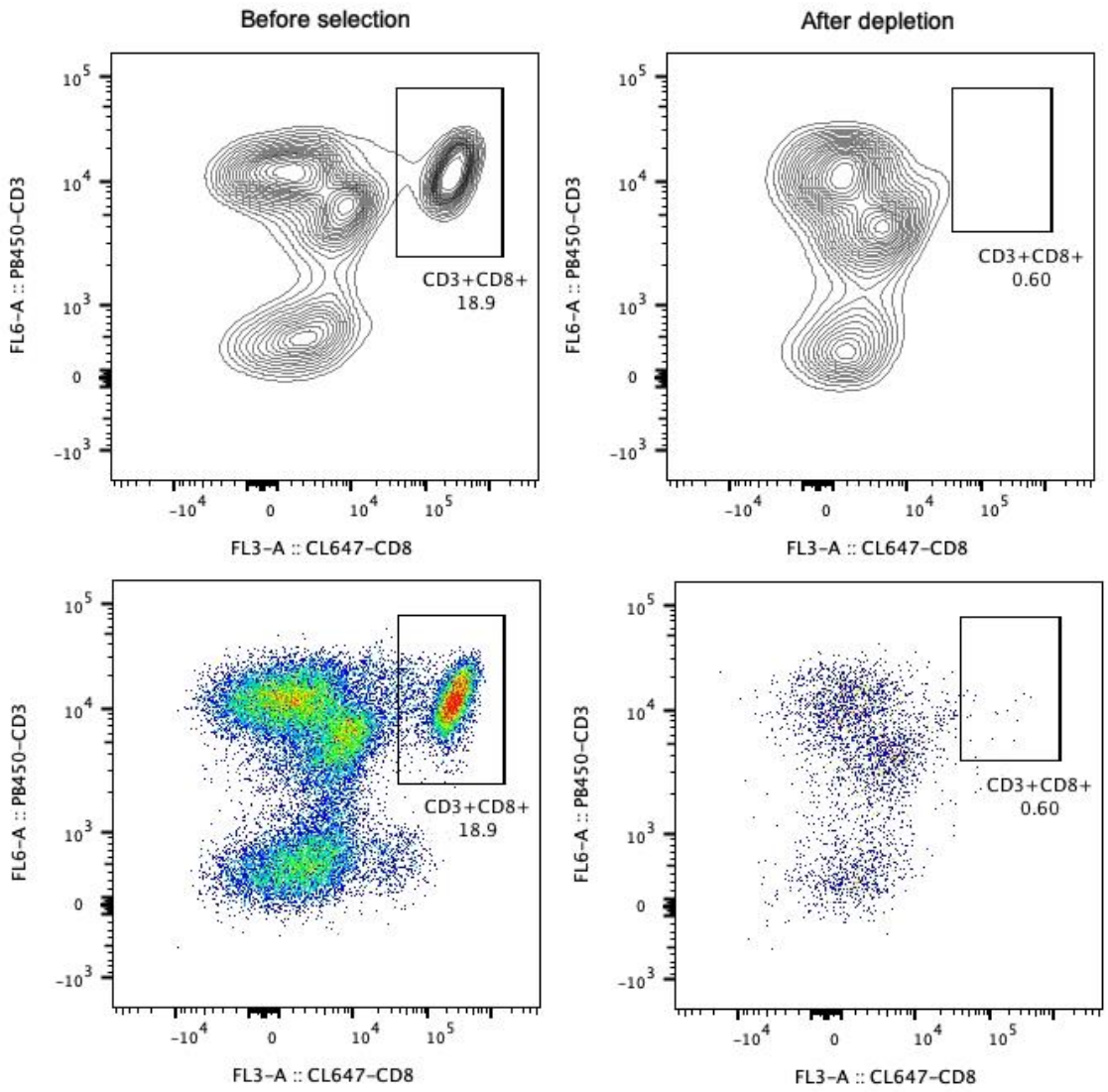
CD8 is a cell surface glycoprotein found on most cytotoxic T lymphocytes and is used as a marker for these cells. It acts as a coreceptor for T cell receptor and functions to recognize MHC –I antigens. 10%-30% human lymphocytes are CD8 positive. Human CD8 Magnetic Beads Kit is used for isolation or depletion of human CD8 T lymphocytes from PBMC, whole blood, or other sample types. Following incubation with biotinylated human CD8 antibody and streptavidin conjugated magnetic beads, the cell sample is placed on a magnet. CD8+ cells remain attached to magnetic beads after separation and can be used for downstream applications, such as cell expansion, but are not suitable for flow cytometry analysis. CD8- cells remain in the supernatant and can be used for further applications.

Product Details

Components	KMS003-10: • MS001-10: 100μL 10mg/mL streptavidin magnetic beads • MS65204-10: 100μL 0.1mg/mL Biotin-CD8 (clone: UCHT4) KMS003-100: • MS001-100: 1mL 10mg/mL streptavidin magnetic beads • MS65204-100: 1mL 0.1mg/mL Biotin-CD8 (clone: UCHT4)
Reactivity	Human
Beads Diameter	2.7μM
Storage buffer	PBS, pH7.4, 0.2% BSA and 0.05% Sodium Azide
Storage temperature	2-8 °C
Recommended Usage	10μL Biotin-CD8 antibody and 10μL streptavidin beads for $1x10^7$ cells

Representative example of depletion

Following depletion of CD8+ cells, supernatant cell suspension was stained with PB450-CD3(clone: HIT3a) and CL647-CD8(clone: OKT8). CD45+ cells are gated in the analysis. Left panel: CD3+CD8+ cells before selection. Right panel: CD3+CD8+ cells after depletion. Human CD8 magnetic beads kit is validated using PBMC from three different donors.



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