MojoSort™ Human CD8 Naïve T Cell Isolation Kit

Catalog# / Size	480045 / 20 tests 480046 / 200 tests
Regulatory Status	RUO
Description	Non CD8 Naïve T cells are depleted by incubating the sample with the biotin antibody cocktail followed by incubation with magnetic Streptavidin Nanobeads. The magnetically labeled fraction is retained by the use of a magnetic separator. The untouched CD8 Naïve T cells are collected by decanting the liquid in a clean tube. These are the cells of interest; do not discard the liquid. Some of the downstream applications include functional assays, gene expression, phenotypic characterization, etc. MojoSort™ reagents are also compatible with column-based cell separation systems available from other vendors. Optimized protocols for cell separation using columns from in-house testing are provided for each kit under the “Related Protocols” section, as well as representative data on the product webpage (where available). Data generated using column separators are indicated on the figure legend. Due to the property of the beads, MojoSort™ reagents typically require dilution for optimal use on column separators. Where available, recommended dilution factors for each kit component based on in-house testing are provided under the “Application Notes” section of the webpage.

Kit Contents

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For Cat# 480045:

- 200 µl Biotin-Antibody Cocktail
- 200 µl Streptavidin Nanobeads

For Cat# 480046:

- 2 vials of 1 ml Biotin-Antibody Cocktail each
- 2 vials of 1 ml Streptavidin Nanobeads each

Product Details

Verified Reactivity	Human
Formulation	Cocktail: Phosphate-buffered solution containing 0.09% sodium azide, pH 7.2. Streptavidin Nanobeads: Aqueous solution containing BSA and 0.05% sodium azide.
Preparation	The antibodies were purified by affinity chromatography, and conjugated with biotin under optimal conditions. Streptavidin Nanobeads: Streptavidin-coated magnetic beads.
Storage & Handling	Antibody cocktail and Streptavidin Nanobeads should be stored undiluted between 2°C and 8°C.
Application	Cell Separation (MojoSort™) - Quality tested
Recommended Usage	10 µl of antibody cocktail for 1 X 10^7 cells in 100 µl of buffer. 10 µl Streptavidin Nanobeads for 1 X 10^7 cells in 100 µl of buffer.
Application Notes	This kit is designed for the isolation of untouched CD8 Naïve T cells from peripheral blood mononuclear cells (PBMCs). Each lot has been individually optimized. Do not mix and match components from different lots or different kits. **Antibody or cocktail dilution to use in column**: 4X **Nanobead dilution to use in columns**: 3X

Antigen Details

Biology Area	Immunology
Molecular Family	CD Molecules
Gene ID	NA

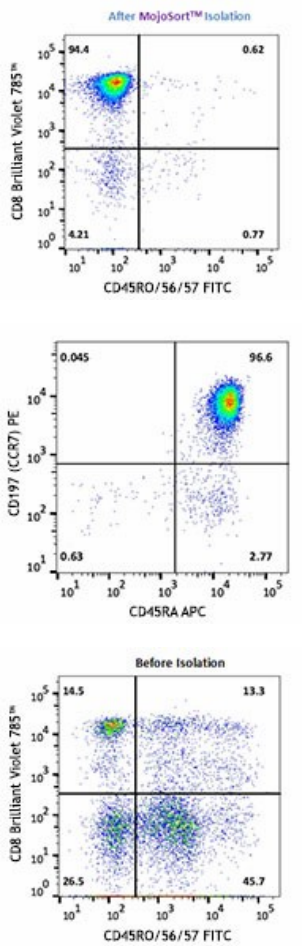
Related Protocols

MojoSort™ Isolation Kits Protocol - 1

MojoSort™ Isolation Kits Column Protocol - 1

MojoSort™ General Protocol - Video

Product Data



The top dot plot shows naïve T cells gated on CD8$^+$ events after isolation. The middle plot shows naïve T cell after isolation, defined by CD197 (CCR7) and CD45RA profile. Events shown were not gated on CD8$^+$ cells. The bottom dot plot shows cells before isolation, stained with CD8 and CD45RO / CD56 / CD57. Dead cells were excluded by 7-AAD.

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