

# MojoSort™ Human CD4 Memory T Cell Isolation Kit

<b>Catalog# / Size</b>	480063 / 20 tests 480064 / 200 tests
<b>Regulatory Status</b>	RUO
<b>Description</b>	<p>Non-CD4<sup>+</sup> Memory 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 CD4<sup>+</sup> Memory 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.</p> <p>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.</p> <p>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.</p>

## Kit Contents

<b>Kit Contents</b>	<p>For Cat# 480063:</p> <ul style="list-style-type: none"> <li>• 200 µl Biotin-Antibody Cocktail</li> <li>• 200 µl Streptavidin Nanobeads</li> </ul> <p>For Cat# 480064:</p> <ul style="list-style-type: none"> <li>• 2 vials of 1 ml Biotin-Antibody Cocktail each</li> <li>• 2 vials of 1 ml Streptavidin Nanobeads each</li> </ul>
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## Product Details

<b>Verified Reactivity</b>	Human
<b>Formulation</b>	<p>Cocktail: Phosphate buffer solution containing 0.09% sodium azide, pH 7.2.</p> <p>Streptavidin Nanobeads: Aqueous solution containing BSA and 0.05% sodium azide.</p>
<b>Preparation</b>	<p>The antibodies were purified by affinity chromatography, and conjugated with biotin under optimal conditions.</p> <p>Streptavidin Nanobeads: Streptavidin-coated magnetic beads.</p>
<b>Storage &amp; Handling</b>	Antibody cocktail and Streptavidin Nanobeads should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">Cell Separation (MojoSort™) - Quality tested</a>
<b>Recommended Usage</b>	<p>10 µl of antibody cocktail for 1 X 10<sup>7</sup> cells in 100 µl of buffer.</p> <p>10 µl Streptavidin Nanobeads for 1 X 10<sup>7</sup> cells in 100 µl of buffer.</p>
<b>Application Notes</b>	<p>This kit is designed for the isolation of untouched memory CD4<sup>+</sup> T cells from peripheral blood mononuclear cells (PBMCs).</p> <p>Each lot has been individually optimized. Do not mix and match components from different lots or different kits.</p> <p><b>Antibody or cocktail dilution to use in column: 5X</b>  <b>Nanobead dilution to use in columns: 3X</b></p>
<b>Product Citations</b>	1. Rasmussen TA, <i>et al.</i> 2022. Cell Rep Med. 3:100766. <a href="#">PubMed</a>

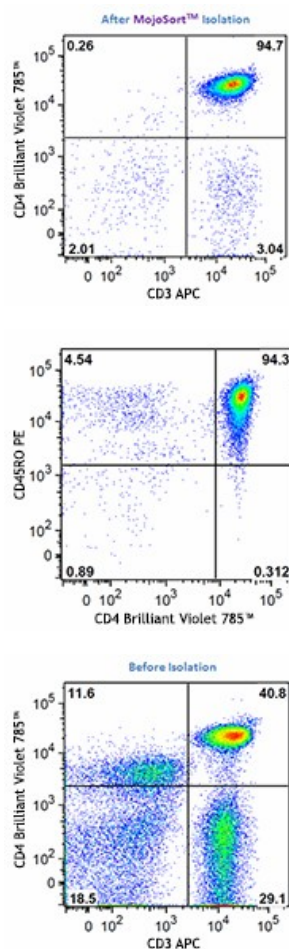
## Antigen Details

<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules

## Related Protocols

[MojoSort™ Isolation Kits Protocol - 3](#)[MojoSort™ Isolation Kits Column Protocol - 3](#)[MojoSort™ General Protocol - Video](#)

## Product Data



Human PBMCs were prepared to isolate CD4<sup>+</sup> Memory T cells using the MojoSort™ Human CD4 Memory T Cell Isolation Kit. The top plot shows CD4<sup>+</sup> T cells after isolation. The middle plot shows CD4<sup>+</sup> memory T cells after isolation, defined by CD4 (clone RPA-T4) Brilliant Violet 785™ and CD45RO (clone UCHL1) PE. Events shown were not previously gated on CD4<sup>+</sup> cells. The bottom plot shows cells before isolation.

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