

MojoSort™ Human CD4 T Cell Isolation Kit

Catalog# / Size	480009 / 10 tests 480010 / 100 tests 480130 / 200 tests
Regulatory Status	RUO
Description	Non CD4 ⁺ T cells are depleted by incubating your 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 ⁺ T cells are collected by decanting the liquid in a clean tube. These are your 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

Kit Contents	For Cat# 480009: <ul style="list-style-type: none">• 100 µl Biotin-Antibody Cocktail• 100 µl Streptavidin Nanobeads For Cat# 480010: <ul style="list-style-type: none">• 1 ml Biotin-Antibody Cocktail• 1 ml Streptavidin Nanobeads
---------------------	---

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 1x10 ⁷ cells in 100 µl of buffer. 10 µl Streptavidin Nanobeads for 1x10 ⁷ cells in 100 µl of buffer.
Application Notes	This kit is designed for the isolation of untouched CD4 ⁺ 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: 15X Nanobead dilution to use in columns: 6X

Application References

1. Driscoll J, *et al.* 2016. *Blood*. 128:3295.

(PubMed link indicates BioLegend citation)

Product Citations

1. Sungur CM, *et al.* 2022. *J Clin Invest*. Online ahead of print. [PubMed](#)
2. Pei S, *et al.* 2021. *J Exp Med*. 218:. [PubMed](#)
3. Zhao S, *et al.* 2021. *Arthritis Rheumatol*. Online ahead of print.. [PubMed](#)
4. Liu C, *et al.* 2020. *Front Immunol*. 11:563699. [PubMed](#)
5. Shin J, *et al.* 2022. *J Nucl Med*. :. [PubMed](#)
6. Yadav P, *et al.* 2022. *HepatoL Commun*. 6:2105. [PubMed](#)
7. Reuschl AK, *et al.* 2022. *Cell Rep*. 39:110650. [PubMed](#)
8. Aalam F, *et al.* 2020. *PLoS Pathog*. 16:e1008968. [PubMed](#)

Antigen Details

Biology Area	Immunology
Molecular Family	CD Molecules
Gene ID	NA

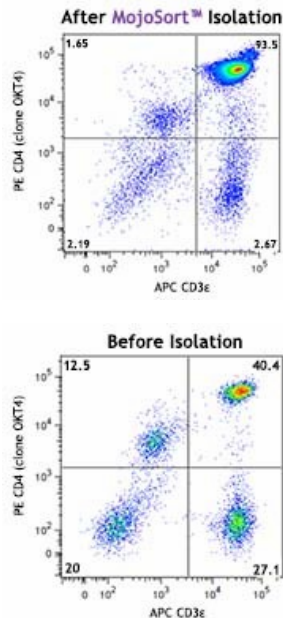
Related Protocols

[MojoSort™ Isolation Kits Protocol - 1](#)

[MojoSort™ Isolation Kits Column Protocol - 1](#)

[MojoSort™ General Protocol - Video](#)

Product Data



PBMCs were prepared to isolate CD4⁺ T cells using the MojoSort™ Human CD4 T Cell Isolation Kit. Cells were stained with CD4 (clone OKT4) PE and CD3ε (clone UCHT1) APC.

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587