

## MojoSort™ Mouse CD4 Naïve T Cell Isolation Kit

<b>Catalog# / Size</b>	480039 / 20 tests 480040 / 200 tests
<b>Regulatory Status</b>	RUO
<b>Description</b>	<p>Non CD4<sup>+</sup> Naïve 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<sup>+</sup> Naïve 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.</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# 480039:</p> <ul style="list-style-type: none"><li>• 200 µl Biotin-Antibody Cocktail</li><li>• 200 µl Streptavidin Nanobeads</li></ul> <p>For Cat# 480040:</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>
---------------------	---

### Product Details

---

<b>Verified Reactivity</b>	Mouse
<b>Formulation</b>	Cocktail: Phosphate buffer solution containing 0.09% sodium azide, pH 7.2. Streptavidin Nanobeads: Aqueous solution containing BSA and 0.05% sodium azide.
<b>Preparation</b>	The antibodies were purified by affinity chromatography, and conjugated with biotin under optimal conditions. Streptavidin Nanobeads: Streptavidin-coated magnetic beads.
<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>	10 µl of antibody cocktail for 1 x 10 <sup>7</sup> cells in 100 µl of buffer. 10 µl of Streptavidin Nanobeads for 1 x 10 <sup>7</sup> cells in 100 µl of buffer.
<b>Application Notes</b>	<p>This kit is designed for the isolation of untouched naïve CD4<sup>+</sup> T cells from lymphoid tissues. For optimal results, we recommend incubating the sample in PBS without Ca/Mg on ice for 30 minutes at the final step of the sample preparation procedure. See the protocols for further instructions.</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: 8X</b> <b>Nanobead dilution to use in columns: 5X</b></p>

## Product Citations

1. Dou D, *et al.* 2021. Clin Sci (Lond). 135:597. [PubMed](#)
2. Kiritsy MC, *et al.* 2021. Elife. 10:.. [PubMed](#)
3. Kang S, *et al.* 2021. Bio Protoc. 11:e4029. [PubMed](#)
4. Dong L, *et al.* 2017. Sci Rep. 10.1038/srep36598. [PubMed](#)
5. Duan H, *et al.* 2021. J Clin Invest. 131:.. [PubMed](#)
6. Tian M, *et al.* 2021. Elife. 10:.. [PubMed](#)
7. Nagata K, *et al.* 2021. Front Immunol. 12:730706. [PubMed](#)
8. Feng P, *et al.* 2021. Theranostics. 11:9503. [PubMed](#)
9. Blaszczak AM, *et al.* 2020. Immunometabolism. 2:00. [PubMed](#)
10. Jain A, *et al.* 2020. Nat Immunol. 0.920138889. [PubMed](#)
11. Lee WH, *et al.* 2019. Exp Mol Med. 51:143. [PubMed](#)
12. Wang N, *et al.* 2020. Front Immunol. 1.765972222. [PubMed](#)

## Antigen Details

Biology Area	Immunology
Molecular Family	CD Molecules
Gene ID	NA

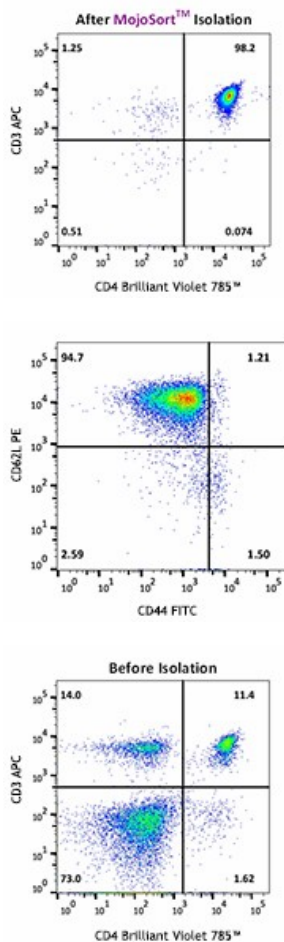
## Related Protocols

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

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

[MojoSort™ General Protocol - Video](#)

## Product Data



The MojoSort™ Mouse CD4 Naïve T cell Isolation Kit was used to isolate cells from C57BL/6 mouse spleen. Top: CD4<sup>+</sup>T cells after isolation. Middle: CD4<sup>+</sup> Naïve T cells after isolation, defined by the CD62L (clone: MEL-14) PE and CD44 (clone: IM7) FITC profile. Bottom: cells before isolation, stained with CD4 (clone: GK1.5) Brilliant Violet 785™ and CD3 (clone: 17A2) APC. Dead cells were excluded by 7-AAD.

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](http://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](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587