

## MojoSort™ Mouse CD8 T Cell Isolation Kit

**Catalog# / Size**  
480007 / 10 tests  
480008 / 100 tests  
480035 / 200 tests

**Regulatory Status** RUO

**Description** Non CD8<sup>+</sup> 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 CD8<sup>+</sup> 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# 480007:

- 100 µl Biotin-Antibody Cocktail
- 100 µl Streptavidin Nanobeads

For Cat# 480008:

- 1 ml Biotin-Antibody Cocktail
- 1 ml Streptavidin Nanobeads

For Cat# 480035:

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

### Product Details

---

**Verified Reactivity** Mouse

**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<sup>7</sup> cells in 100 µl of buffer.  
10 µl Streptavidin Nanobeads for 1x10<sup>7</sup> cells in 100 µl of buffer.

**Application Notes** This kit is designed for the isolation of untouched CD8<sup>+</sup> T cells from lymphoid tissues.

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: 10X**  
**Nanobead dilution to use in columns: 8X**

## Product Citations

1. Ma S, *et al.* 2018. Cell. 173:443. [PubMed](#)
2. Tan L, *et al.* 2022. Aging Dis. 13:1562. [PubMed](#)
3. Dai K, *et al.* 2017. Front Immunol. 0.555555556. [PubMed](#)
4. Pan YC, *et al.* 2021. Mol Ther Oncolytics. 20:175. [PubMed](#)
5. Lv M, *et al.* 2020. Cell Res. 30:966. [PubMed](#)
6. Yang P, *et al.* 2022. Nat Commun. 13:5782. [PubMed](#)
7. Cheng Y, *et al.* 2020. PLoS Pathog. 16:e1008569. [PubMed](#)
8. Bai C, *et al.* 2020. Mol Ther Oncolytics. 17:9. [PubMed](#)
9. Tang X, *et al.* 2022. Cell Rep. 41:111673. [PubMed](#)
10. Ren Y, *et al.* 2022. J Immunother Cancer. 10:. [PubMed](#)
11. Nabe S, *et al.* 2018. Cancer Sci. 109:3737. [PubMed](#)
12. Duan H, *et al.* 2021. J Clin Invest. 131:. [PubMed](#)
13. Li ZL, *et al.* 2020. Nat Commun. 3.101388889. [PubMed](#)
14. Itoh G, *et al.* 2021. Mol Oncol. Online ahead of print.. [PubMed](#)
15. Raju S, *et al.* 2020. Cell Reports. 29(9):2556-2564.e3.. [PubMed](#)
16. Wu J, *et al.* 2021. STAR Protoc. 2:101022. [PubMed](#)
17. Wang D, *et al.* 2022. EMBO Rep. 23:e53691. [PubMed](#)
18. Ma C, *et al.* 2017. J Immunol. 198(2):749-756. [PubMed](#)
19. Yin X, *et al.* 2020. Cell Rep. 33:108278. [PubMed](#)
20. Aguilar-Valenzuela R, *et al.* 2018. J Virol. 92:e00014. [PubMed](#)
21. Mosaheb MM, *et al.* 2020. Nat Commun. 11:524. [PubMed](#)
22. Yan J, *et al.* 2019. Nat Commun. 0.727777778. [PubMed](#)
23. Qin J, *et al.* 2020. Cancer Immunol Res. 8:1426. [PubMed](#)
24. Luo ZW, *et al.* 2021. Int J Nanomedicine. 16:2949. [PubMed](#)
25. Xie L, *et al.* 2020. Infect Immun. :88. [PubMed](#)
26. Dai X, *et al.* 2020. Theranostics. 6.897222222. [PubMed](#)
27. Lucas ED, *et al.* 2020. Cell Reports. 33(2):108258. [PubMed](#)
28. Shi GN, *et al.* 2021. Ther Adv Med Oncol. 13:1758835920987056. [PubMed](#)

## Antigen Details

<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules
<b>Gene ID</b>	NA

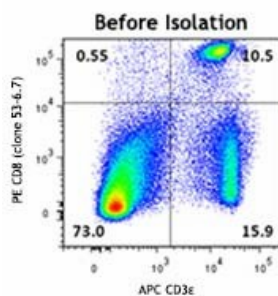
## Related Protocols

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

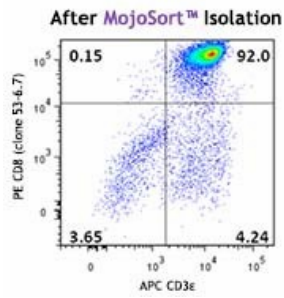
[MojoSort™ Isolation Kits Column Protocol - 1](#)

[MojoSort™ General Protocol - Video](#)

## Product Data



A single cell suspension from pooled C57BL/6 mouse peripheral lymphoid tissues was prepared to isolate CD8<sup>+</sup> T cells using the MojoSort™ Mouse CD8 T Cell Isolation Kit. Cells were stained with CD8 (clone 53-6.7) PE and CD3ε (clone 145-2C11) 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](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