

MojoSort™ Mouse CD3 T Cell Isolation Kit

Catalog# / Size	480023 / 10 tests 480024 / 100 tests 480031 / 200 tests
Regulatory Status	RUO
Description	Non CD3 ⁺ 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 CD3 ⁺ 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# 480023: <ul style="list-style-type: none">• 100 µl Biotin-Antibody Cocktail• 100 µl Streptavidin Nanobeads For Cat# 480024 <ul style="list-style-type: none">• 1 ml Biotin-Antibody Cocktail• 1 ml Streptavidin Nanobeads For Cat# 480031 <ul style="list-style-type: none">• 2 vials of 1 ml Biotin-Antibody Cocktail each• 2 vials of 1 ml Streptavidin Nanobeads each
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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 ⁷ cells in 100 µl of buffer. 10 µl Streptavidin Nanobeads for 1x10 ⁷ cells in 100 µl of buffer. For this kit, incubation with antibody cocktail and Streptavidin Nanoparticles can be done for 5 to

15 minutes, without loss in purity and yield.

Application Notes

This kit is designed for the isolation of untouched CD3⁺ 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: 15X

Product Citations

1. Lu C, *et al.* 2019. Cancer Immunol Res. 7:414. [PubMed](#)
2. Dowling JP, *et al.* 2019. Nat Commun. 0.90625. [PubMed](#)
3. Dong Y, *et al.* 2022. Front Microbiol. 12:806084. [PubMed](#)
4. Duan H, *et al.* 2021. J Clin Invest. 131:. [PubMed](#)
5. Chuntova P, *et al.* 2022. J Immunother Cancer. 10:. [PubMed](#)
6. Gupta VK, *et al.* 2021. Cancer Res. 81:4001. [PubMed](#)
7. Ye X, *et al.* 2021. Cancer Biol Med. Online ahead of print. [PubMed](#)
8. Deng Z, *et al.* 2020. J Immunol. 2360:204. [PubMed](#)
9. Dao L, *et al.* 2022. PLoS One. 17:e0274601. [PubMed](#)

Antigen Details

Biology Area	Immunology
Molecular Family	CD Molecules, TCRs
Gene ID	NA

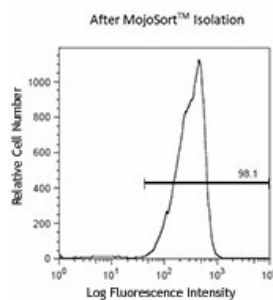
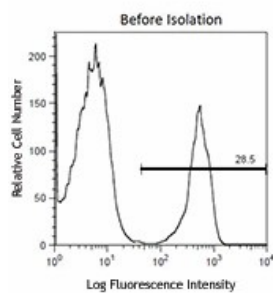
Related Protocols

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

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

[MojoSort™ General Protocol - Video](#)

Product Data



A single cell suspension from C57BL/6 mouse lymphoid tissues was prepared to isolate CD3⁺ T cells using the MojoSort™ Mouse CD3 T Cell Isolation Kit. Cells were stained with CD3 (clone 145-2C11) APC. Dead cells were excluded by 7-AAD.

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