

MojoSort™ Human CD14 Nanobeads

Catalog# / Size	480093 / 20 tests 480094 / 200 tests
Regulatory Status	RUO
Description	<p>CD14⁺ expressing cells are either selected or depleted by incubating your sample with the directly conjugated CD14 Nanobeads. The magnetically labeled fraction is retained by the use of a magnetic separator. After collection of the CD14⁺ expressing cells, 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

Kit Contents	<p>For Cat# 480093:</p> <ul style="list-style-type: none">• 1 vial containing 100 µl of Human TruStain FcX™ (Fc Receptor Blocking Solution)• 1 vial containing 200 µl of Human CD14 Nanobeads <p>For Cat# 480094:</p> <ul style="list-style-type: none">• 1 vial containing 1 ml of Human TruStain FcX™ (Fc Receptor Blocking Solution)• 2 vials containing 1 ml of Human CD14 Nanobeads
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Product Details

Verified Reactivity	Human
Formulation	Aqueous solution containing 0.05% sodium azide and 0.3% BSA.
Preparation	Conjugated nanobeads: Protein-coated magnetic beads.
Storage & Handling	All components should be stored undiluted between 2°C and 8°C.
Application	Cell Separation (MojoSort™) - Quality tested
Recommended Usage	5 µl of Human TruStain FcX™ (Fc Receptor Blocking Solution) for 1 x 10 ⁷ cells in 100 µl of buffer. 10 µl of Human CD14 Nanobeads for 1 x 10 ⁷ cells in 100 µl of buffer.
Application Notes	<p>The expected purity is >90% CD14⁺ cells post-separation of human peripheral blood mononuclear cells from healthy donors, analyzed by flow cytometry</p> <p>This kit is designed for the positive selection or depletion of human CD14⁺ cells from peripheral blood mononuclear cells (PBMCs).</p> <p>Antibody or cocktail dilution to use in column: N/A Nanobead dilution to use in columns: 10X</p> <p>To find out the dilution to use this product in separation columns please download the CoA.</p>

Product Citations

1. Kiritsy MC, *et al.* 2021. Elife. 10: [PubMed](#)
2. Gopinath A, *et al.* 2021. NPJ Parkinsons Dis. 7:62. [PubMed](#)

Antigen Details

Gene ID NA

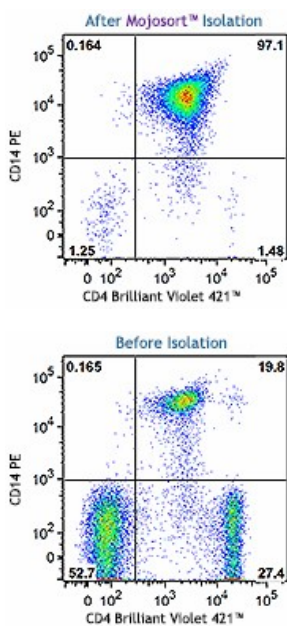
Related Protocols

[MojoSort™ Human CD14 Nanobeads Protocol](#)

[MojoSort™ Human CD14 Nanobeads Column Protocol](#)

[MojoSort™ General Protocol - Video](#)

Product Data



PBMCs were prepared to isolate or deplete CD14⁺ monocytes using the MojoSort™ Human CD14 Nanobeads. **Top plot:** CD14⁺ monocytes after isolation. **Bottom plot:** Cells before isolation. Cells were stained with CD4 (clone RPA-T4) Brilliant Violet 421™ and CD14 (clone HCD14) PE. Dead cells were excluded by 7-AAD.

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