

MojoSort™ Human CD14 Selection Kit

Catalog# / Size	480025 / 20 tests 480026 / 200 tests
Regulatory Status	RUO
Description	<p>CD14⁺ cells are either selected or depleted by incubating your sample with the biotin conjugated anti-human CD14 antibody followed by Streptavidin 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. CD14 is expressed at high levels on human monocytes and macrophages and at lower levels on granulocytes. Some dendritic cell populations such as interfollicular dendritic cell, reticular dendritic cells, and Langerhans cells have also been reported to express CD14. As a high-affinity receptor for LPS, CD14 is involved in pathogen clearance and upregulation of adhesion molecules and cytokine expression. Clone 63D3 has been reported not to block LPS induced signal.</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# 480025:</p> <ul style="list-style-type: none">• 1 vial containing 200 µl of biotin anti-human CD14 antibody (clone 63D3)• 1 vial containing 200 µl Streptavidin Nanobeads <p>For Cat# 480026</p> <ul style="list-style-type: none">• 2 vials containing 1 ml each of biotin anti-human CD14 antibody (clone 63D3)• 2 vials containing 1 ml each of Streptavidin Nanobeads
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Product Details

Verified Reactivity	Human
Formulation	Antibody: Phosphate-buffered solution containing 0.09% sodium azide, pH 7.2 with stabilizer. Streptavidin Nanobeads: Aqueous solution containing BSA and 0.05% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
Storage & Handling	Antibody 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 for 1x10 ⁷ cells in 100 µl of buffer. 10 µl Streptavidin Nanobeads for 1x10 ⁷ cells in 100 µl of buffer.
Application Notes	The expected purity is 90% CD14 ⁺ cells post-separation of human peripheral blood mononuclear cells from healthy donors, analyzed by flow cytometry

This kit is designed for the positive selection or depletion of CD14⁺ 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: 16X
Nanobead dilution to use in columns: 3X

Product Citations

1. Xiao R, *et al.* 2022. Nat Commun. 13:4661. [PubMed](#)

Antigen Details

Biology Area	Cell Biology, Neuroinflammation, Neuroscience
Molecular Family	CD Molecules
Gene ID	NA

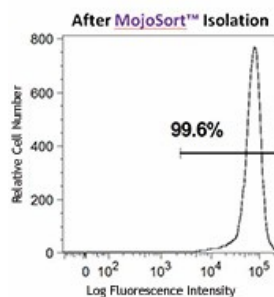
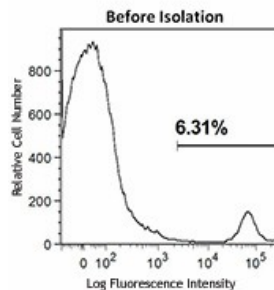
Related Protocols

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

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

[MojoSort™ General Protocol - Video](#)

Product Data



PBMCs were prepared to isolate CD14⁺ cells using the MojoSort™ Human CD14 Selection Kit. Cells were stained with CD14 PE (clone HCD14). Dead cells were excluded by 7-AAD.

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