

MojoSort™ Mouse CX3CR1 Selection Kit

Catalog# / Size	480055 / 10 tests 480056 / 100 tests
Regulatory Status	RUO
Description	<p>CX3CR1⁺ Microglia are either selected or depleted by incubating your sample with the CX3CR1-Biotin followed by the Streptavidin Nanobeads. The magnetically labeled fraction is retained by the use of a magnetic separator. After collection of the CX3CR1⁺ 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# 480055:</p> <ul style="list-style-type: none">• 100 µl of Biotin-Antibody Cocktail: Biotin anti-CX3CR1• 100 µl Streptavidin Nanobeads <p>For Cat# 480056:</p> <ul style="list-style-type: none">• 1 ml of Biotin-Antibody Cocktail: Biotin anti-CX3CR1• 1 ml Streptavidin Nanobeads each
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Product Details

Verified Reactivity	Mouse
Formulation	Cocktail: Phosphate buffer solution containing 0.09% sodium azide, pH 7.2 with stabilizer. 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 1 X 10 ⁶ cells in 100 µl of buffer. 10 µl Streptavidin Nanobeads for 1 X 10 ⁶ cells in 100 µl of buffer.
Application Notes	<p>This kit is designed for the isolation of microglia from C57BL/6 neonatal and adult brain. Tissue enzymatic digestion, followed by percoll fractionation, is recommended.</p> <p>Each lot has been individually optimized. Do not mix and match components from different lots or different kits.</p> <p>Antibody or cocktail dilution to use in column: 2X Nanobead dilution to use in columns: 2X</p>

Antigen Details

Biology Area	Cell Biology, Immunology, Neuroscience, Neuroscience Cell Markers
Molecular Family	Cytokine/Chemokine Receptors, GPCR
Gene ID	NA

Related Protocols

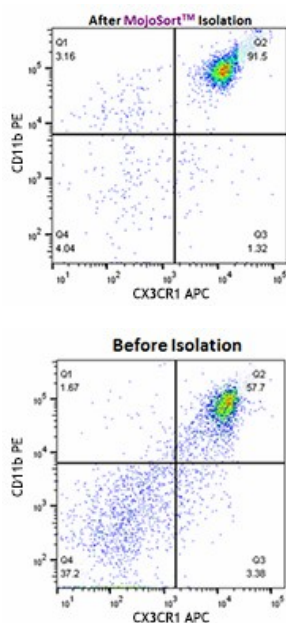
[MojoSort™ Selection Kits Column Protocol - 5](#)

[MojoSort™ General Protocol - Video](#)

[Whole Mouse Brain Processing for Microglia Isolation, Cell Separation, and Flow Cytometry](#)

[MojoSort™ Selection Kits Protocol - 5](#)

Product Data



A single cell suspension from C57BL/6 mouse brain was prepared using Trypsin digestion and 70/37/30% percoll gradient to isolate CX3CR1⁺ microglia using the MojoSort™ Mouse CX3CR1 Selection Kit. Cells were gated on CD11b and CX3CR1. The bottom plot shows cells after percoll fractionation. Debris and Dead cells were gated out with 7AAD viability dye.

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