MojoSort™ Mouse CX3CR1 Selection Kit

Catalog# / Size	480055 / 10 tests 480056 / 100 tests
Regulatory Status	RUO
Description	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. 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# 480055:

- 100 µl of Biotin-Antibody Cocktail: Biotin anti-CX3CR1
- 100 µl Streptavidin Nanobeads

For Cat# 480056:

- 1 ml of Biotin-Antibody Cocktail: Biotin anti-CX3CR1
- 1 ml Streptavidin Nanobeads each

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	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. 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**: 2X **Nanobead dilution to use in columns**: 2X

Antigen Details

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

Related Protocols

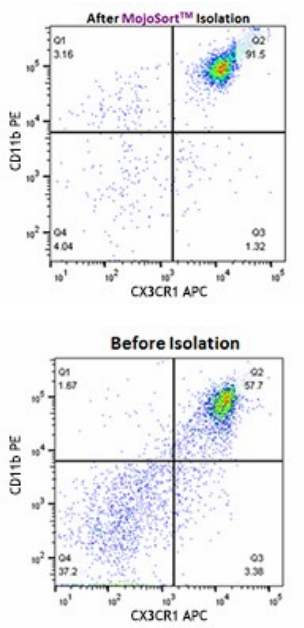
MojoSort™ Selection Kits Column Protocol - 5

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.

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). 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
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587