

MojoSort™ Mouse CD45 Nanobeads

Catalog# / Size	480027 / 20 tests 480028 / 200 tests
Regulatory Status	RUO
Description	<p>CD45⁺ expressing cells are either selected or depleted by incubating your sample with the directly conjugated CD45 Nanobeads. The magnetically labeled fraction is retained by the use of a magnetic separator. After collection of the CD45⁺ 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	For Cat# 480027 <ul style="list-style-type: none">• 1 vial containing 200 µl of CD45 Nanobeads For Cat# 488028 <ul style="list-style-type: none">• 2 vials containing 1 ml each of CD45 Nanobeads
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Product Details

Verified Reactivity	Mouse
Formulation	Aqueous solution containing BSA and 0.05% sodium azide.
Preparation	Antibody-conjugated particles: protein-coated magnetic nanobeads.
Storage & Handling	Mouse CD45 Nanobeads should be stored undiluted between 2°C and 8°C.
Application	Cell Separation (MojoSort™) - Quality tested
Recommended Usage	10 µl Mouse CD45 Nanobeads in 1x10 ⁷ cells in 100 µl of buffer.
Application Notes	<p>This kit is designed for the positive selection or depletion of CD45⁺ cells from lymphoid or different organ tissues. For depletion of CD45⁺ cells a higher volume of beads (up to 15 µl) and two separations may be required. Please contact technical support if needed.</p> <p>Antibody or cocktail dilution to use in column: N/A Nanobead dilution to use in columns: 10X</p>
Product Citations	<ol style="list-style-type: none">1. Navabi N, <i>et al.</i> 2017. Cell Reports. 10.1016/j.celrep.2017.04.046. PubMed2. Beck MA, <i>et al.</i> 2021. EMBO J. 40:e108234. PubMed

Antigen Details

Biology Area	Cell Biology, Inhibitory Molecules, Neuroscience, Neuroscience Cell Markers
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Molecular Family CD Molecules

Gene ID NA

Related Protocols

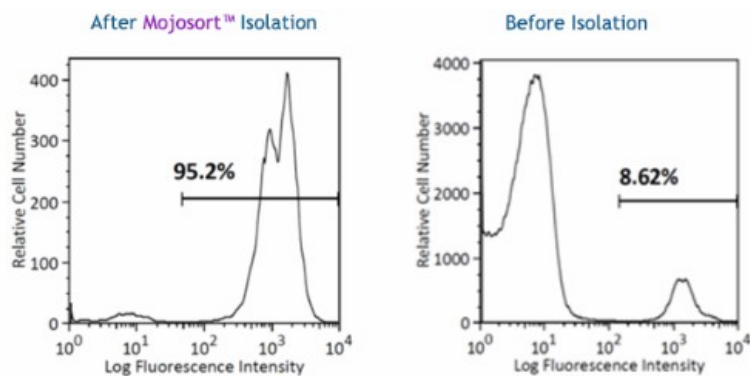
[MojoSort™ Nanobeads Column Protocol - 2](#)

[MojoSort™ Mouse CD45 Nanobeads Protocol - Selection](#)

[MojoSort™ Mouse CD45 Nanobeads Protocol - Depletion](#)

[MojoSort™ General Protocol - Video](#)

Product Data



A single cell suspension from collagenase enzymatically digested C57BL/6 mouse lung tissues was prepared to isolate CD45⁺ cells using the MojoSort™ Mouse CD45 Nanobeads. Cells were stained with CD45 (clone 30-F11) Alexa Fluor® 647. Dead cells were excluded by 7-AAD.

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