

MojoSort™ Human CD45 Nanobeads

Catalog# / Size	480029 / 20 tests 480030 / 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# 480029: <ul style="list-style-type: none">• 1 vial containing 200 µl of CD45 nanobeads For Cat# 480030: <ul style="list-style-type: none">• 2 vials containing 1 ml each of CD45 Nanobeads
---------------------	---

Product Details

Verified Reactivity	Human
Formulation	Aqueous solution containing BSA and 0.05% sodium azide.
Preparation	Antibody-conjugated particles: protein-coated magnetic nanobeads.
Storage & Handling	Human CD45 Nanobeads should be stored undiluted between 2°C and 8°C.
Application	Cell Separation (MojoSort™) - Quality tested
Recommended Usage	10 µl Human CD45 Nanobeads for 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 tissues.</p> <p>Antibody or cocktail dilution to use in column: N/A Nanobead dilution to use in columns: 10X</p>
Product Citations	1. Thapa D, <i>et al.</i> 2020. Commun Biol. 3:12. PubMed

Antigen Details

Biology Area	Cell Biology, Neuroscience, Neuroscience Cell Markers, Inhibitory Molecules
Gene ID	NA

Related Protocols

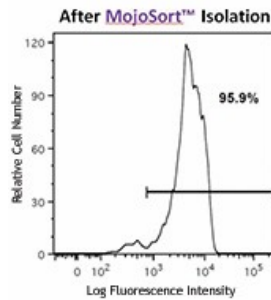
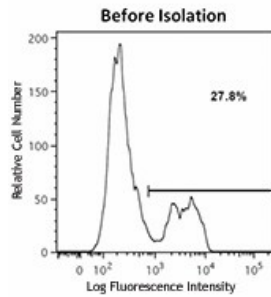
[MojoSort™ Nanobeads Column Protocol - 2](#)

[MojoSort™ General Protocol - Video](#)

[MojoSort™ Human CD45 Nanobeads Protocol 1, \(<50% CD45+\)](#)

[MojoSort™ Human CD45 Nanobeads Protocol 2, \(>50% CD45+\)](#)

Product Data



A single cell suspension comprised of 30% human peripheral blood mononuclear cells (PBMCs) and 70% human colorectal adenocarcinoma cell line (HT-29) cells were prepared to isolate CD45⁺ cells using the MojoSort™ Human CD45 Nanobeads. Cells were stained with a CD3/CD19/CD56/CD14/CD15 PE cocktail. Dead cells were excluded by 7-AAD.

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