

# MojoSort™ Human anti-APC Nanobeads

<b>Catalog# / Size</b>	480089 / 100 µL 480090 / 1 mL
<b>Regulatory Status</b>	RUO
<b>Description</b>	<p>Human APC labeled PBMCs are either selected or depleted in a two-step separation process. The cells are first incubated with a BioLegend anti-human APC-conjugated antibody, followed by incubating with directly conjugated anti-APC Nanobeads. The APC<sup>+</sup>, magnetically labeled fraction is retained by the use of a magnetic separator. After collection or depletion of the APC<sup>+</sup> 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

<b>Kit Contents</b>	<p>For Cat# 480089:</p> <ul style="list-style-type: none"> <li>• 1 vial containing 100 µL of Human TruStain FcX</li> <li>• 1 vial containing 100 µL of Human anti-APC Nanobeads</li> </ul> <p>For Cat# 480090:</p> <ul style="list-style-type: none"> <li>• 1 vial containing 1 mL of Human TruStain FcX</li> <li>• 1 vial containing 1 mL of Human anti-APC Nanobeads</li> </ul>
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## Product Details

<b>Verified Reactivity</b>	Human
<b>Formulation</b>	Aqueous solution containing 0.09% sodium azide and 0.3% BSA.
<b>Preparation</b>	Conjugated particles: protein-coated magnetic beads.
<b>Storage &amp; Handling</b>	All components should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">Cell Separation (MojoSort™) - Quality tested</a>
<b>Recommended Usage</b>	Volume of MojoSort™ Human anti-APC Nanobeads should be adjusted depending on starting percentage of cell type to be isolated. For 1x10 <sup>7</sup> cells in 100 µl of buffer, use the following volumes:

Cell type	Cell Frequency in PBMCs	Volume of Nanobeads (for 1x10 <sup>7</sup> cells in 100 µl of buffer)
CD3	50-60%	20 µL
CD4 (including monocytes)	50-55%	20 µL
CD8a (including low-expressing cells)	15-20%	10 µL
CD19	5-10%	10 µL
TCR Vδ2	1-3%	5 µL

Always use 5 µl Human TruStain for 1x10<sup>7</sup> cells in 100 µl of buffer. If additional vials of TruStain are required, please

## Application Notes

The MojoSort™ Human anti-APC Nanobeads are designed to use with BioLegend APC (allophycocyanin) conjugated antibodies against human cells. It can be used as a two-step kit for the positive selection or depletion of APC<sup>+</sup> labeled cells from peripheral blood mononuclear cells (PBMCs).

## Antigen Details

Gene ID NA

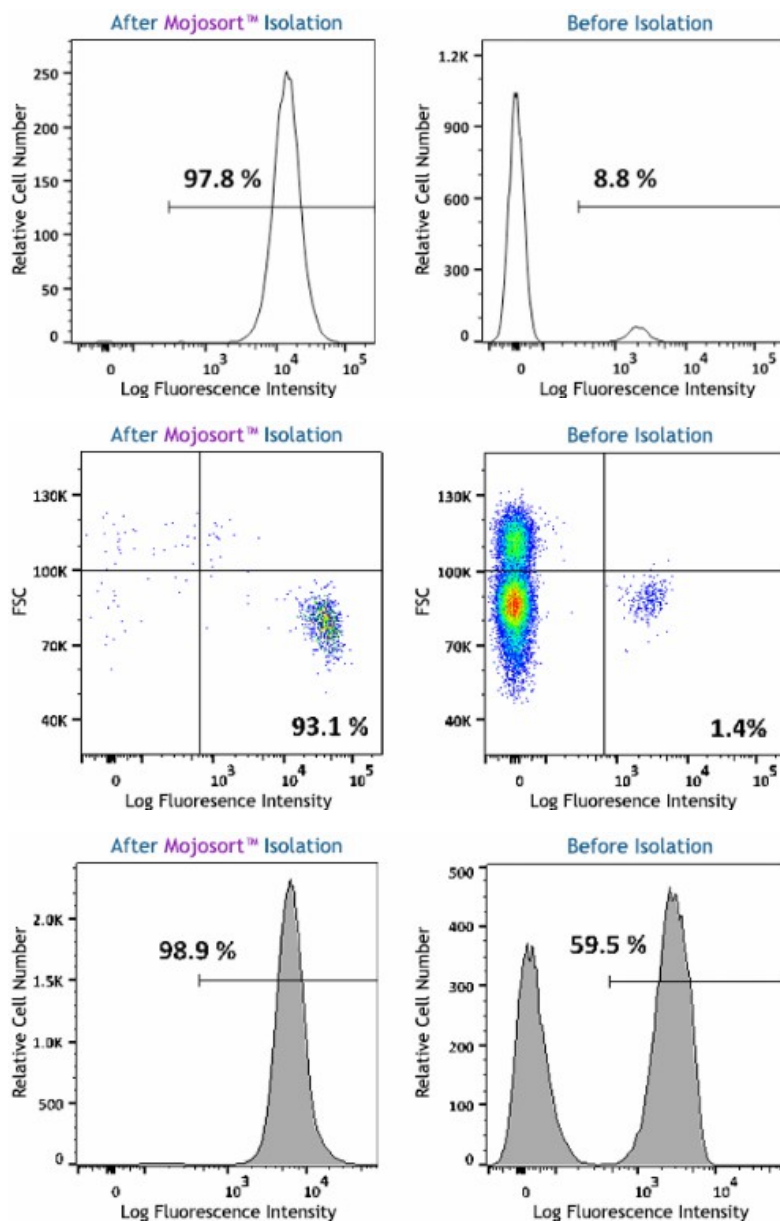
## Related Protocols

[MojoSort™ Human anti-APC Nanobeads Protocol](#)

[MojoSort™ Human anti-APC Nanobeads Column Protocol](#)

[MojoSort™ General Protocol - Video](#)

## Product Data



PBMCs were prepared and stained with CD19 (clone HIB19) APC. APC-positive cells were then isolated using MojoSort™ Human anti-APC Nanobeads. Dead cells were excluded by 7AAD.

A single cell suspension from peripheral blood mononuclear cells (PBMCs) was prepared and stained with TCR Vδ2 (clone B6) APC. APC-positive cells were then isolated using MojoSort™ Human anti-APC Nanobeads. Dead cells were excluded by 7AAD.

A single cell suspension from peripheral blood mononuclear cells (PBMCs) was prepared and stained with CD3 (clone UCHT1) APC. APC-positive cells were then isolated using MojoSort™ Human anti-APC Nanobeads. Dead cells were excluded by 7AAD.

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