

Resource Summary Report

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MojoSort™ Human CD4 T Cell Selection Protocol

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Type: Protocol

Proper Citation

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Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.7z8hp9w>

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Group: BioLegend

Summary: Product description and procedure summary: This kit is designed for the sequential positive selection of CD4⁺ T cells from human peripheral blood mononuclear cells (PBMCs). Human monocytes express both CD14 and CD4. When using only CD4 Nanobeads for positive selection of human CD4 T cells, monocytes could be isolated along with the T cells. If this monocyte fraction does not impact your application, there is no need to address it. However, not including this population may be required. Thus, the first step in this kit is the depletion of CD14⁺ cells using a combination of biotin anti-human CD14 and Streptavidin Nanobeads. The second step is the positive selection of the CD4 T cells using directly conjugated CD4 Nanobeads. After collection of the targeted cells, downstream applications include functional assays, gene expression, phenotypic characterization, etc. Note: This procedure is optimized for the isolation of 10⁷ to 2 x 10⁸ cells per tube. If working with fewer than 10⁷ cells, keep volumes as indicated for 10⁷ cells. For best results, optimize the conditions to your specific cell number and tissue. Prepare fresh MojoSort™ Buffer solution by diluting the 5X concentrate with sterile distilled water. Scale up volumes if using 14mL tubes and Magnet, and place the tube in the magnet for 10 minutes.

Affiliations: BioLegend

External URL: <https://www.biolegend.com/protocols/mojosort-human-cd4-t-cell-selection-protocol/4279/>

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