



AKADEUM
LIFE SCIENCES®

Human PBMC Leukopak Isolation Kit

with BACS™ Microbubbles

Gentle Isolation for Healthier Cells



Better Science Starts with Better Cell Isolation

The **Human PBMC Leukopak Isolation Kit** was developed with **BACS™ Microbubbles** to isolate truly untouched PBMCs from leukopak material. Non-PBMCs are targeted and removed with antibodies recognizing CD66b, CD123, CD235ab via negative selection. The **Human PBMC Leukopak Isolation Kit** has the capacity to isolate PBMCs from up to 12.5 billion total cells (red blood cell and white blood cells combined).

Untouched Cells are Healthier Cells. Healthier cells enable better cell therapy workflow results.

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A Gentle PBMC Isolation Method Is Finally Here



Scalable: Any Size, Any Volume

Isolate PBMCs in tubes or directly in the leukopak bag



Healthier Cells

Less handling: only one wash step no matter the blood cell amount



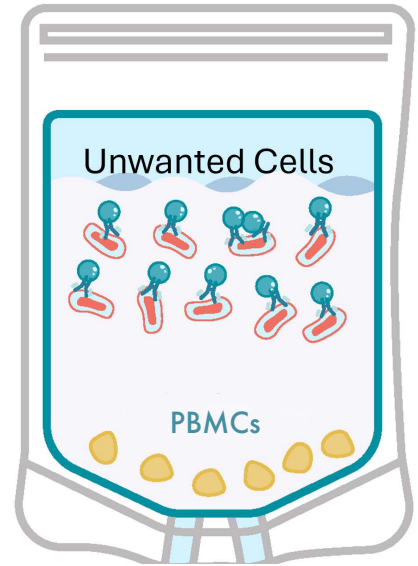
Gentle on fragile cells

Flotation lifts unwanted cells out while preserving truly untouched PBMCs



Chemical Free

No lysis or density gradient reagents - for improved recovery of PBMCs



How the Human PBMC Leukopak Isolation Kit Works:

Leukopak samples contain a milieu of immune cells (i.e., white blood cells), plasma, platelets, and red blood cells. The **Human PBMC Leukopak Isolation Kit** uses a flotation-based negative selection method to gently enrich PBMCs by removing unwanted cell populations. (Figure 1)

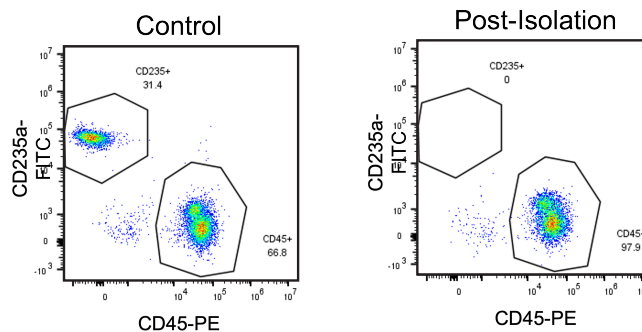


Figure 1: Isolated PBMC were labeled for CD45 and CD235a. The fluorescently labeled cells were analyzed by flow cytometry.

These unwanted cells are labeled with an optimized cocktail of biotinylated antibodies targeting CD66b, CD123, and CD235ab. **Microbubbles** are mixed into the sample where they bind to the labeled cells and gently float them to the surface. Untouched PBMCs in their original state are subsequently harvested. Isolated PBMCs are suitable for flow cytometry, molecular assays, activation and expansion, cell culture, or other functional studies.

Ordering Information

Catalog Number	Product Name	Size
13210-223	Human PBMC Leukopak Isolation Kit	For 12.5 x 10 ⁹ Total Cells
13210-223T	Human PBMC Leukopak Isolation Kit, Research Scale	For 2 x 10 ⁹ Total Cells

For more information about Akadeum Products and the power of microbubbles, visit Akadeum's website: akadeum.com

