

LeviSelect Tissue RBC Depletion Kits

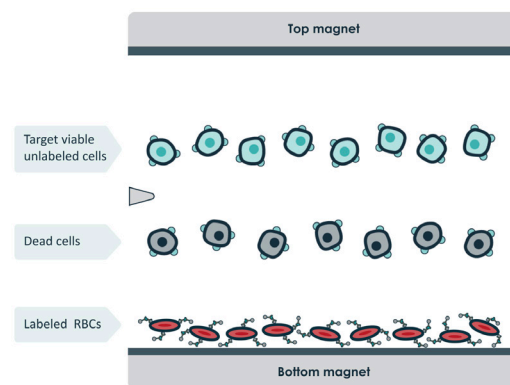
A New Approach to RBC Removal

Red blood cells (RBCs) are a common source of tissue contamination that can have significant impacts on downstream data quality and interpretation. Existing approaches to RBC removal, such as RBC lysis, are often harsh and incomplete. The LeviSelect™ Tissue RBC Depletion Kit consists of a simple two-step protocol that efficiently and effectively removes RBCs from a variety of both human and mouse tissues. The gentle process removes RBCs and debris, while simultaneously enriching for viable cells, improving overall sample quality and minimizing wasted resources.

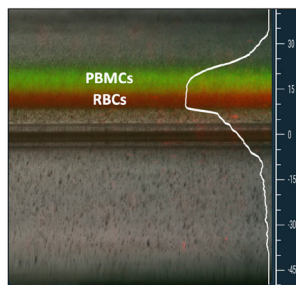
Gentle and Lysis-Free

Levitation Technology™ enables a superior approach for the efficient removal of RBCs from both human and mouse tissues.

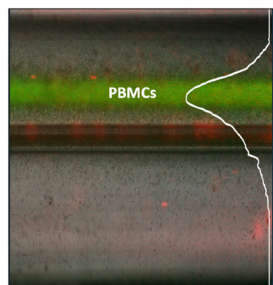
- Simple, gentle, semi-automated protocol
- Eliminates harsh lysis-based removal methods
- Simultaneous removal of dead cells and debris



No RBC Depletion



With RBC Depletion



Human PBMCs were stained with calcein and mixed with PI stained RBCs at a 1:1 ratio.

Visualize Quality

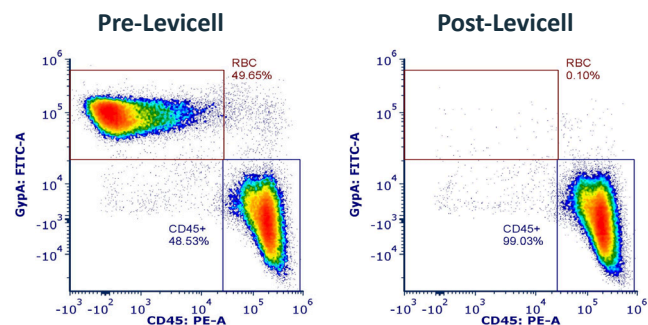
Unlike other methods, the LeviCell® platforms enable researchers to visualize samples as they are being processed.

- Record, document, and easily track barcoded samples
- Improve consistency and reduce variability
- Discover a new approach to quality control

Exceptional Depletion

By using intrinsic properties of the starting material, RBCs are efficiently and effectively removed from fresh tissue (example flow plot from mouse spleen to the right).

- Process up to 5 million RBCs
- Eliminate harsh lysis-based removal methods
- Improve flow cytometric gating accuracy



LeviSelect Tissue RBC Depletion Kits

Remove and Improve

The LeviSelect Human and Mouse Tissue RBC Depletion kits are suitable for varying cell numbers from a variety of different tissues, enabling researchers focused on a broad spectrum of applications to generate a higher-quality sample for sensitive and costly downstream applications.



Tissue Versatility

Researchers can now leverage the advantages of Levitation Technology to deplete RBCs from a variety of tissue types and sizes. Achieve near 100% RBC removal efficiency while simultaneously improving sample viability and quality.

Mouse Tissue	Depletion Rate % (mean \pm SD)	Viability before	Viability After (mean \pm SD)
Pancreas	97.7 \pm 0.0	39.1%	70.2% \pm 1.8
Brain	98.1 \pm 0.2	65.3%	89.0% \pm 10.5
Liver	99.4 \pm 0.1	69.0%	89.0% \pm 10.6
Spleen	99.8 \pm 0.0	69.1%	94.8% \pm 3.2
Lung	99.0 \pm 0.1	80.7%	90.6% \pm 1.2

Product Description	Part Number	Number of Reactions
LeviSelect Human Tissue RBC Depletion Kit	1004112	10
LeviSelect Mouse Tissue RBC Depletion Kit	1004110	10