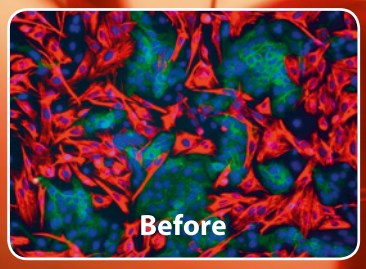
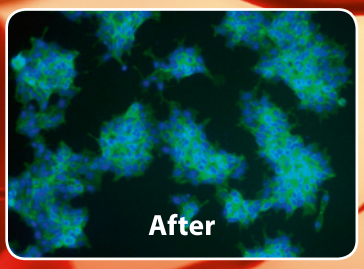
MACS
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Say goodbye to mouse cells

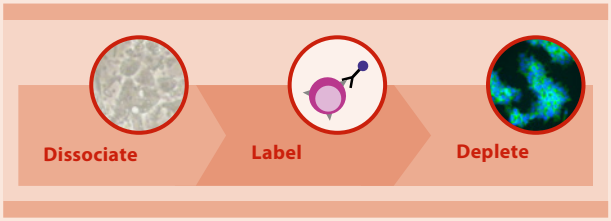
A complete workflow for xenograft tumors

Get untouched human tumor cells from your xenograft tumors by depleting contaminating mouse cells, once and for all.

- **Better tumor cell cultures free of fibroblasts and other mouse cells**
- **Increased accuracy, no more unspecified reads or cross-reactive probes**
- **Normalization of samples prior to Pharmacokinetics**
- **More flexibility and channels for flow cytometric analysis**

▸ **miltenyibiotec.com/xenograft**

3 easy steps to deplete mouse cells



Tumor dissociation and storage

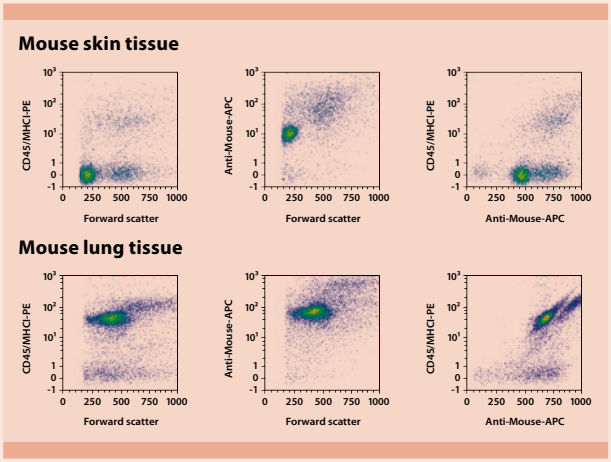
Your results are only as good as your starting material. The gentleMACS™ Dissociators and and Tumor Dissociation Kit ensure rapid and standardized dissociation of tissue samples into single-cell suspensions. Gentle handling results in excellent cell viability and functionality for downstream applications.



Figure 1: Start smart with gentleMACS Dissociators and kits.

Specific labeling of mouse cells

The Mouse Cell Depletion Kit uses a combination of antibodies to recognize all mouse cells across multiple organs. Antibody cocktails specific to mouse CD45 and MHC class I epitopes are commonly used to deplete mouse cells after xenotransplation. However, only a subset of cells can be detected using these marker combinations, including skin and lung tissues.
In contrast, the Mouse Cell Depletion Kit recognizes all cells of mouse origin, regardless of tissue origin.



Depletion of mouse cells

The Mouse Cell Depletion Kit depletes contaminating mouse cells from xenograft tumors, leaving a pure population of human cells. You can perform this depletion in your own lab anytime, no core facilities needed. Working with multiple tumor samples?
Save time by using the MultiMACS™ Cell24 Separator Plus to process up to 24 samples in parallel.

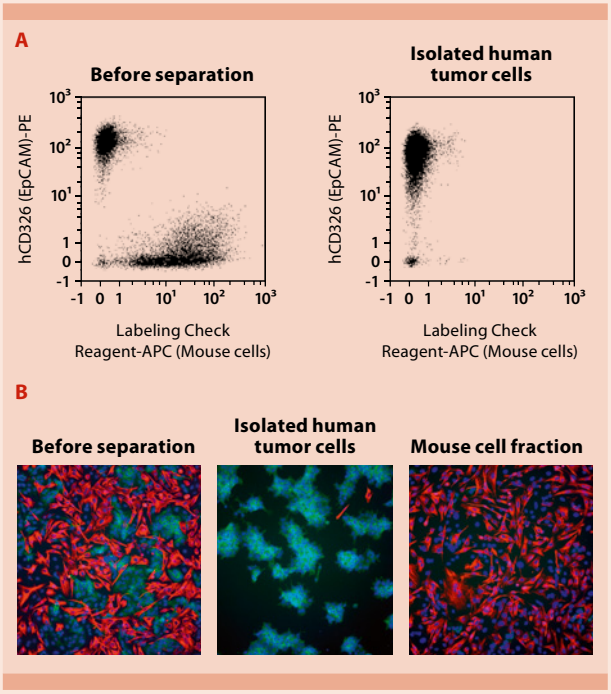


Figure 2: (A) Example of the depletion of mouse cells from human colon carcinoma cells (B) The unseparated fraction, the human tumor cell fraction, and the mouse cell–containing fraction were cultured for three days. After fixation, cells were stained using antibodies specific for murine vimentin (red) and human EpCAM (green). Cell nuclei were stained with DAPI (blue).

Ordering information

Product	Order no.
MACS® Tissue Storage Solution	130-100-008
Tumor Dissociation Kit, human	130-095-929
gentleMACS Octo Dissociator with Heaters	130-096-427
Mouse Cell Depletion Kit	130-104-694
MultiMACS Cell24 Separator Plus	130-098-637
QuadroMACS™ Starting Kit (LS)	130-091-051

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