



Miltenyi Biotec

TumorMACS™ Media

Tumor entity-specific culture media for primary and xenotransplanted tumor cells

- Cell culture media available for pancreatic, ovarian, renal, and colon tumor cells.
- Efficiently derive and expand stable primary cell lines from solid tumors.
- Preserve parental tumor heterogeneity, tumor-initiating capacity, and genetic stability.
- Improve *in vitro* models for cancer research and drug screening.

► miltenyibiotec.com/tumormacs



Primary cell lines from solid tumors

Miltenyi Biotec offers a standardized workflow for deriving stable primary cell lines from solid tumors (fig. 1) for the long-term cultivation of tumor cells.

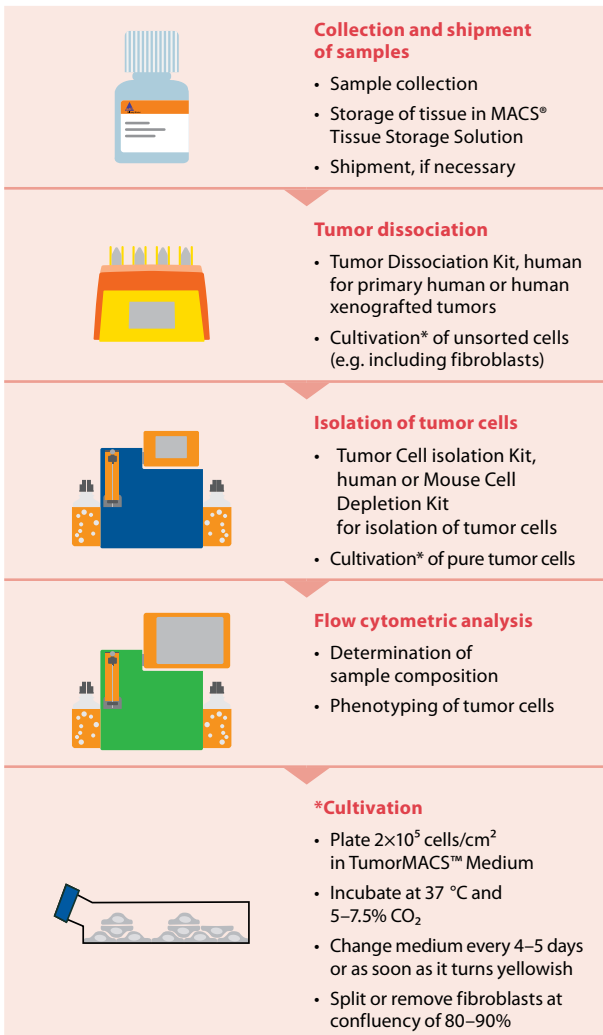


Figure 1: Workflow overview on how to establish a stable cell line from primary tumor cells.

Preserved heterogeneity of initial tumors *in vivo*

Tumors derived from established cancer cell lines, such as the pancreatic PANC-1 fail to reflect the histological and functional features of primary human tumors (fig. 2), making the direct comparison to primary tissue impossible. In contrast, cell lines derived from primary tumors or patient-derived xenografts and propagated in TumorMACS™ Media retain their initial heterogeneity (fig. 3). This morphological and phenotypic heterogeneity as well as the preserved tumor-initiating capacity and genetic stability lead to improved *in vitro* models.

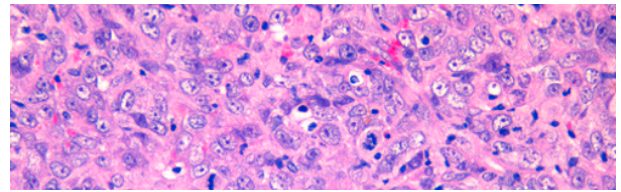


Figure 2: PANC-1–derived xenografts show a homogeneous histology.

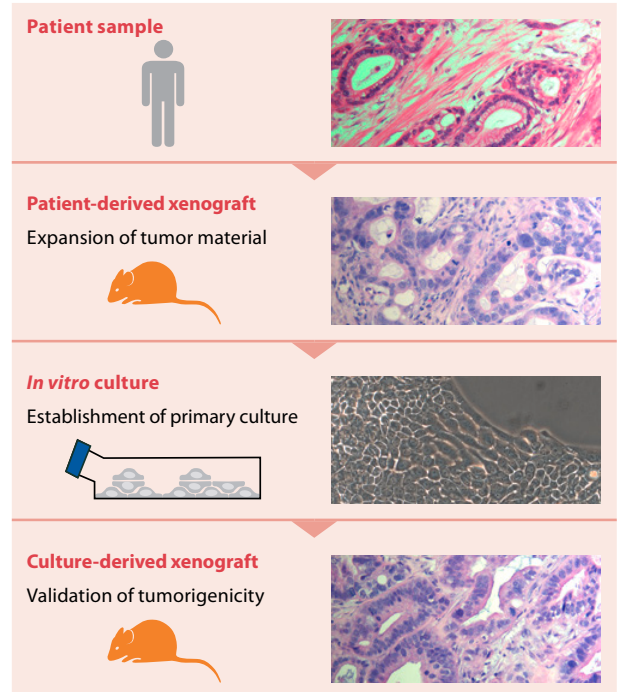


Figure 3: Patient-derived pancreatic tumor cells were injected into mice. Tumor tissue was extracted from the xenograft, cultured in Pancreas TumorMACS Medium over multiple passages, and re injected into mice for the validation of tumorigenicity.



A detailed guideline for the initiation of primary tumor cell cultures is available at

► [miltenyibiotec.com/tumorculture](https://www.miltenyibiotec.com/tumorculture)

VISIT



Order information

Products	Order no.
Pancreas TumorMACS Medium	130-119-484
Ovarian TumorMACS Medium	130-119-483
Renal TumorMACS Medium	130-119-482
Colon TumorMACS Medium	130-127-169
MACS® Tissue Storage Solution	130-100-008
Tumor Dissociation Kit, human	130-095-929
gentleMACS™ Octo Dissociator with Heaters	130-096-427
Tumor Cell Isolation Kit, human	130-108-339
Mouse Cell Depletion Kit	130-104-694

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