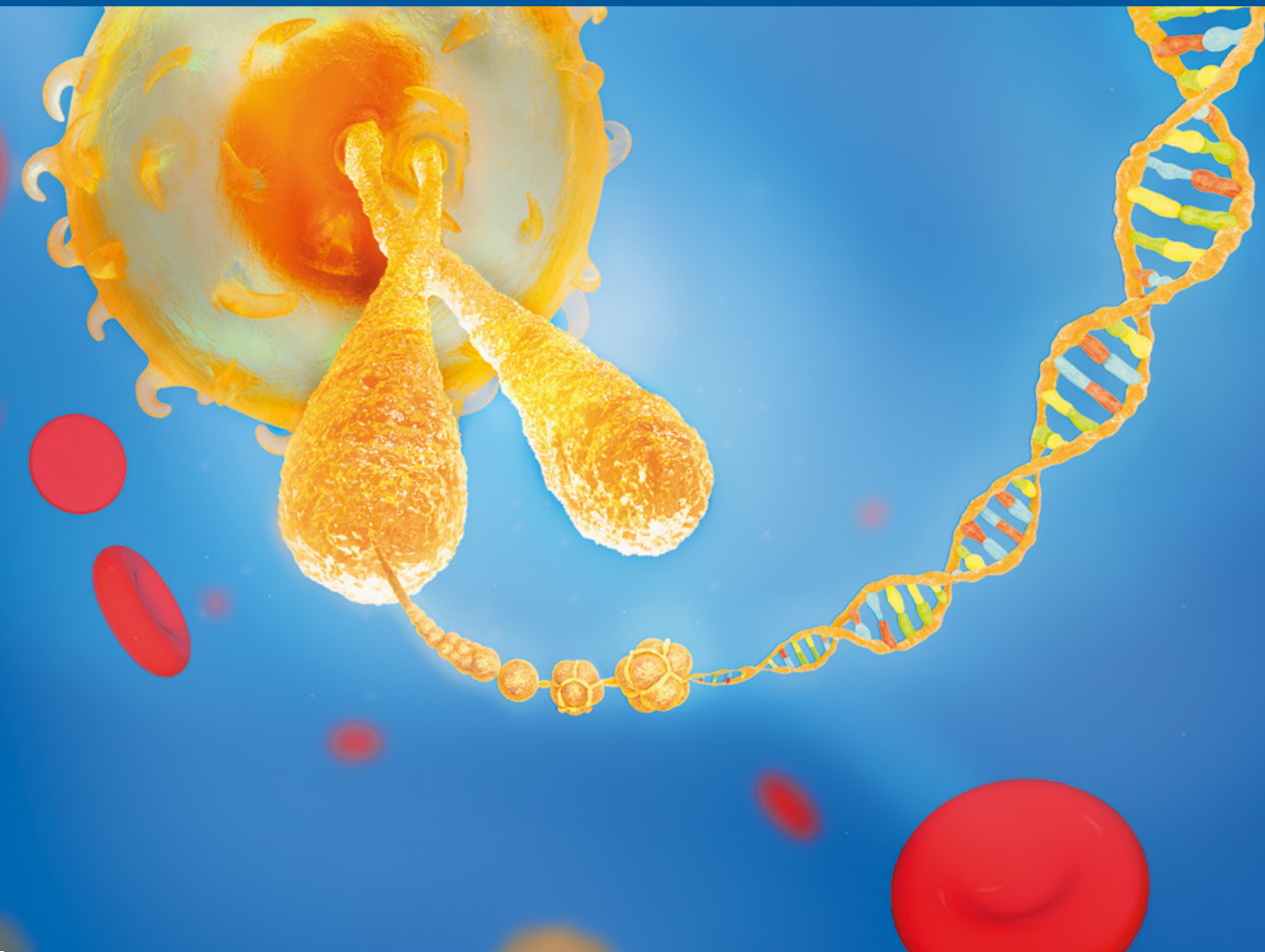
Miltenyi Biotec

MACSprep™ Forensic Sperm MicroBead Kit, human

Quick sperm cell isolation from forensic samples

- Obtain pure sperm cells from cell mixtures in 1 hour
- No extensive centrifugation steps
- Scalable solution for processing multiple samples in parallel

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Accelerated & easy cell separation for forensic science trace samples

It is often challenging to obtain pure and intact sperm cells from varied forensic samples when non-sperm cells (e.g. epithelial cells) are dominant.

The best solution is the MACSprep Forensic Sperm MicroBead Kit, human, in combination with the unique MACS® Column Technology. Together they provide an easy process for separating targeted sperm cells from a cell mixture without extensive centrifugation steps. The separation procedure minimizes the contamination of free DNA from other cells that may be present. The DNA from the separated pure sperm cells is therefore suitable for precise molecular analysis, e.g., STR analysis.

Thorough separation enables a high ratio of male:female DNA

Using the MACSprep Forensic Sperm MicroBead Kit, human to quickly isolate contributor sperm cells from cell mixtures recovered from swabs can significantly increase the proportion of male DNA in the final DNA extraction. The quality of reliable data can be ensured when working with trace low-abundance samples.

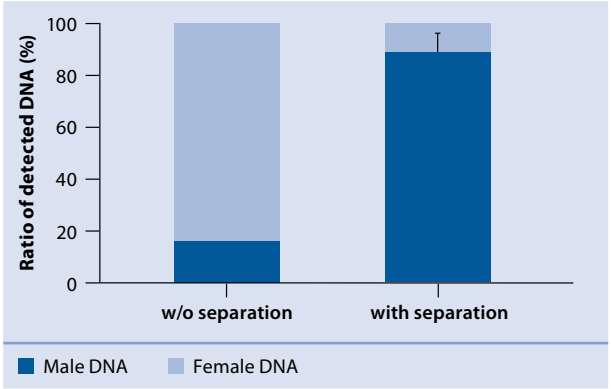
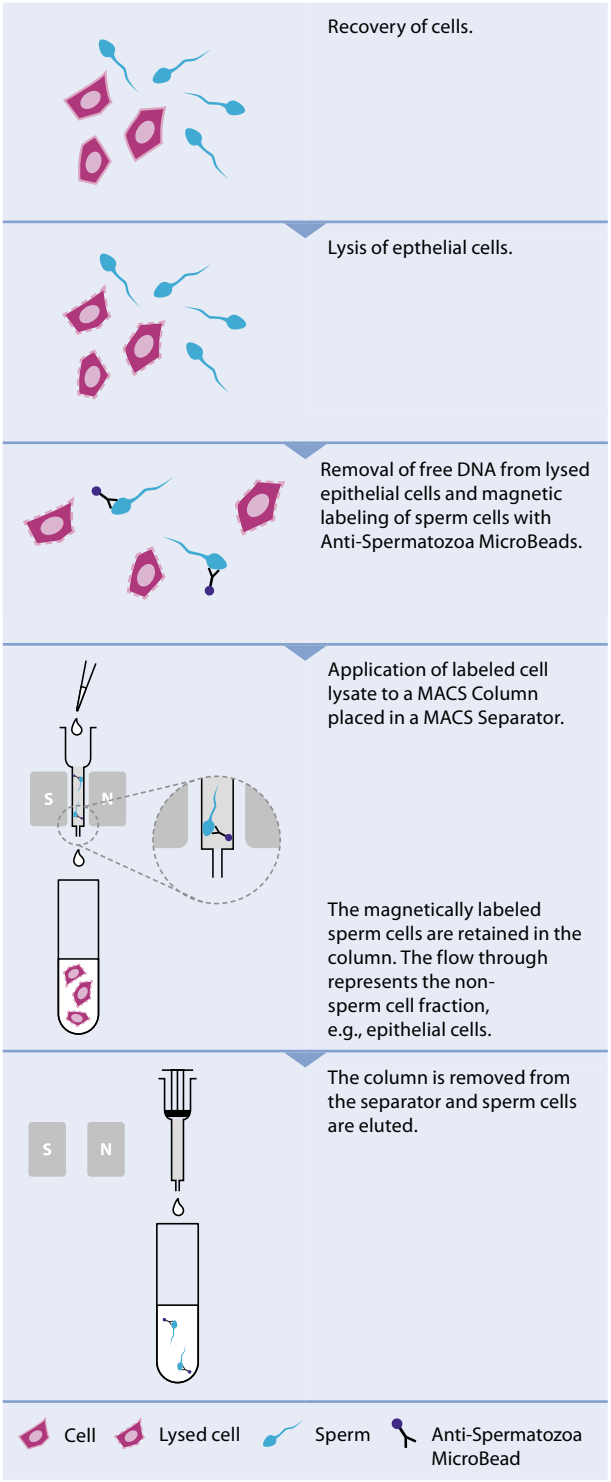


Figure 1: Increased ratio of male:female DNA after sperm cell separation using MACSprep Forensic Sperm MicroBead Kit in combination with MS columns. The mock swabs were loaded with 5:1 of HeLa cell line and sperm cells. The DNA was extracted from loaded cells (w/o separation) and cells in the positive fraction (with separation) and quantified by Real-Time PCR.

Product	Order no.
MACSprep Forensic Sperm MicroBead Kit, human	130-125-280
MiniMACS™ Separator and Starting Kit	130-090-312
OctoMACS™ Starting Kit	130-042-108

Cell separation and sperm isolation from swab samples



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