

## Single cell isolation using Vycap microwells

1. Transfer cells from the CellSearch cartridge to a FACS tube by pipetting up and down 10 x to release the cells from the glass surface.
2. Add 2ml of PBS onto the micro-well chip in the filter unit and filter until droplets pass through the chip.
3. Pause the filtration by turning off the pressure
4. Add the 150 $\mu$ l of sample to the PBS on top of the filter (microwell-chip).
5. Filter sample through a VyCAP micro-well chip at 50mbar for Rosettesep or 10 mbar for CellSearch.
6. To ensure maximum recovery, it is strongly recommended to rinse the sample tube at least once with 500 $\mu$ l PBS to be filtered as well.
7. Start the filtration again and filter until all fluids have passed the micro-well chip.
8. Scan the Filter on the VyCAP punch system according to manufacturer's instructions
9. Punch out cells of interest according to manufacturer's instructions into PCR tubes
10. Continue to Whole Genome Amplification