

Highway1

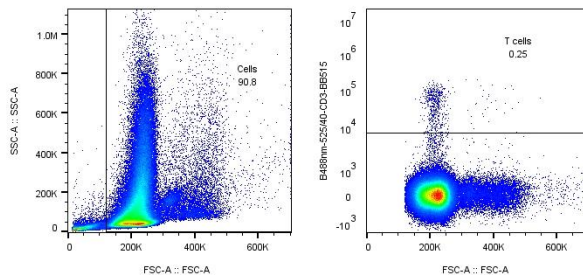
The fastest, gentle, sterile
cell sorter for every lab

Application Note

High-Speed Enrichment from Blood Cells

T cells at 37,000 events per second

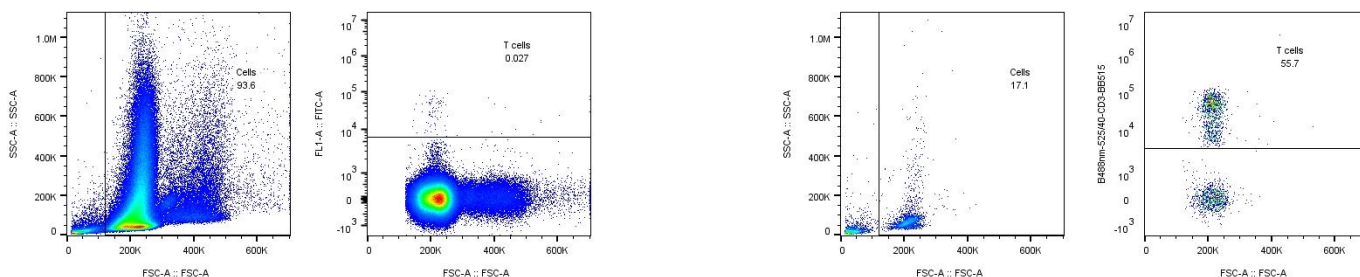
Pre-sort purity 0.30%



Post-sort purity 0.03%



Post-sort purity 55.7%, recovery 86%



Cells from a diluted leukocyte reduction (1:5500) at 8.3 million cells/mL were incubated with CD3 antibody for 20 minutes. Without washing, the sample was loaded into the Highway1 Cartridge and the T cells were enriched.

First, detectors were set to optimised voltages. Cells were gated using FSC-Avs. SSC-A, and T cells were selected using FL1 CD3-BB515 + vs FSC-A. The sort was run at 37,000 EPS in enrichment mode giving a post-sort purity of 55.7% and a recovery of 86%

Contact us

hello@cellularhighways.com
cellularhighways.com

Cellular Highways Ltd.
Melbourn Science Park
Cambridgeshire
UK

Highway1

The fastest, gentle, sterile
cell sorter for every lab



A TTP Company

Fast

With cell throughput rates of 37,000 per second in enrichment mode and 10,000 per second in purity mode, the Highway1 is the fastest microfluidic chip sorter.

Gentle

Using patented VACS™ technology, The Highway1 reduces cell stress compared to conventional droplet sorters.

Sterile

Samples are run in sterile, single-use cartridges without sheath fluid to prevent sample contamination using the Highway1.

For every lab

The intuitive software simplifies the sorting process so the Highway1 can be used in every lab.

Highway1 Instrument and desktop PC



Highway1 product list	Item number
Highway1 Instrument	A10000-1001
Highway1 Syringe Adaptor 3ml	A10000-1029
3ml Syringe (pack of 25)	A10000-1073
3ml Syringe Blunt Needle (pack of 100)	A10000-1076
3ml Syringe Strainer (pack of 25)	A10000-1077
Highway1 Fan Filter (pack of 5)	A10000-1078
Daily QC Beads Kit (5ml)	A10000-1079
Highway Cold Pack Kit	A10000-1081
Highway1 Cartridge Rack	A10000-1082
Highway1 Cartridge	A10000-1083
Highway1 Cartridge Loader	A1000-1084
Highway1 Optics Wipes (pack of 30)	A1000-1101

Sterile cartridge, syringe and cartridge filler



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