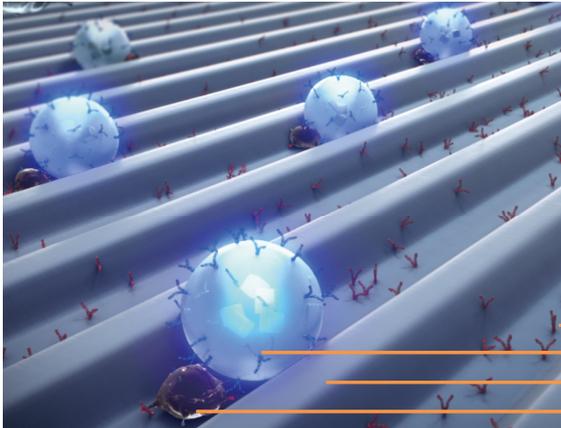


ExoCounter

Digital Exosome Counting Technology!
Easier, Faster, and more Reliable way for biofluid samples

Principle



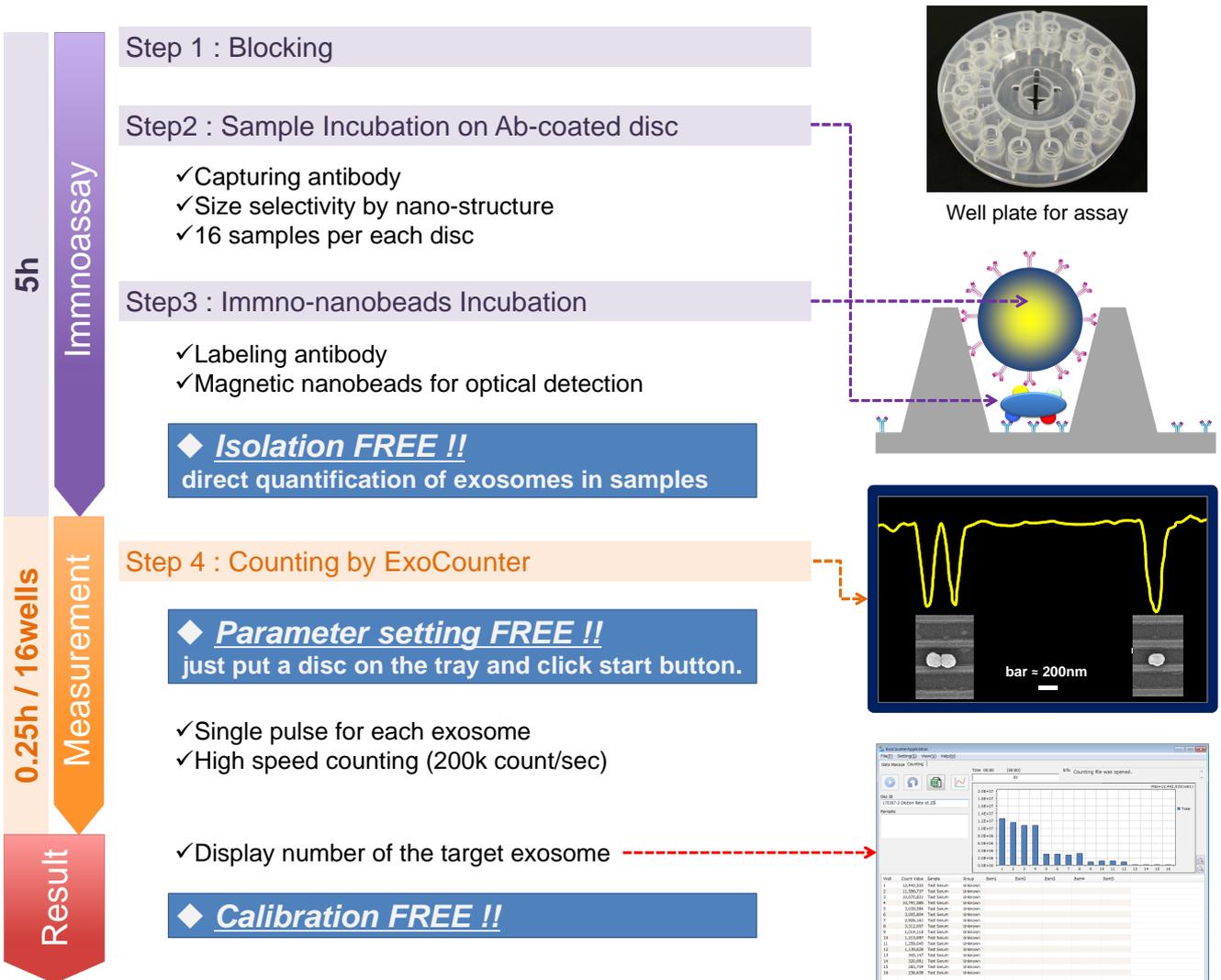
Exosome detection with optical disc

From Audio / Visual to Exosome analysis
“ExoCounter” packs JVCKENWOOD’s Blu-ray technology.

- ✓ Immuno-nanobeads labeling on optical disc
- ✓ Fabrication of disc with nanostructure (260nm)
- ✓ Optical detection & digital signal processing

Our technology realized high-speed, specific and size-selective counting of exosomes in biofluids.

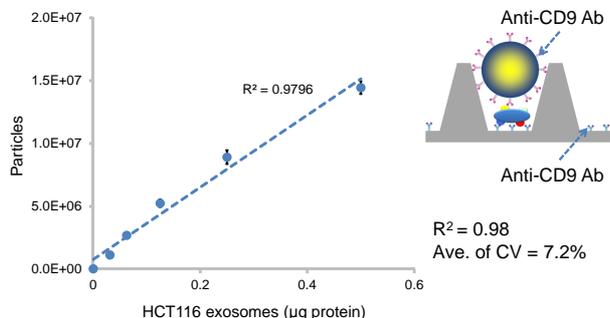
Work Flow



Analytical Performances

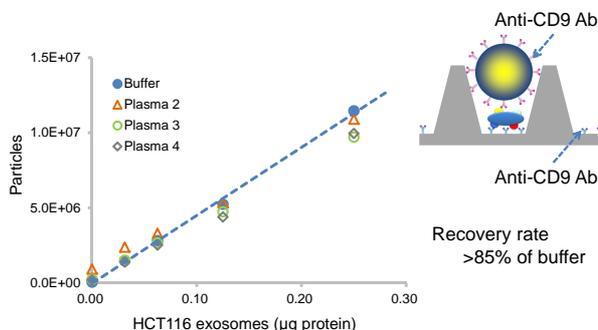
1. Linearity and repeatability

Exosomes isolated from HCT116 cell culture were spiked in buffer.

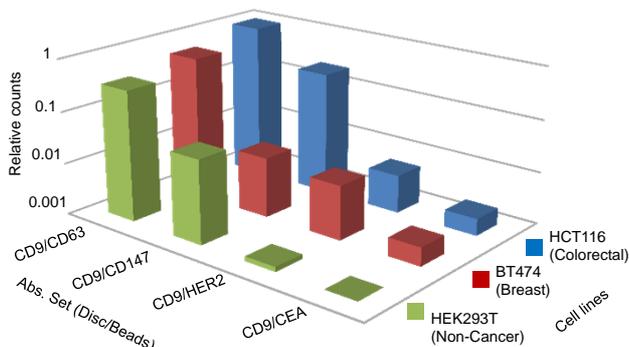


2. Spike and recovery test of exosomes in plasma

Exosomes isolated from HCT116 cell culture were spiked in buffer and plasmas whose CD9 exosomes were pre-depleted.



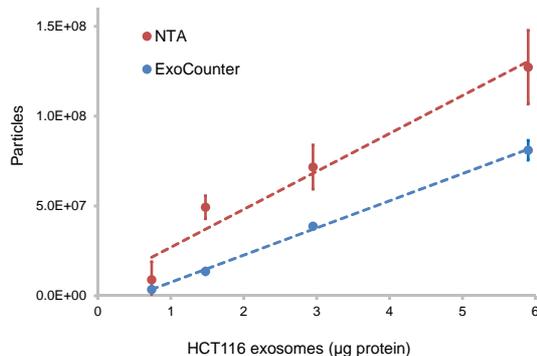
3. Relative expression level of specific-exosomes in various cell cultures media detecting with various antibodies



Data courtesy of Tokyo Medical University and Keio university School of medicine.

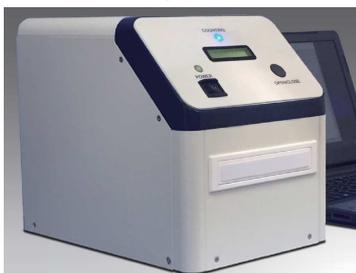
4. Comparison of "ExoCounter" with NTA

Number of CD9 exosomes isolated from HCT116 cell culture by SEC were analyzed with both equipment.



Product

ExoCounter



Washer



Assay Kit



Standard kit

- 4 discs for 64 assays
- Anti CD9-Ab coated Disc
- Anti CD9-Ab fixing nanobeads

Blank disc kit

- 4 discs for 64 assays
- Blank Disc (for your antibodies)
- Anti CD9-Ab fixing nanobeads

Specification

	Specifications
Principle	Immuno-nanobeads Labeling Digital Exosome Counting
Sample Type	Serum, Plasma, Cell culture
Sample volume	12.5µL of serum or plasma
Measurement time	15min / 16well
Measurement range	$5 \times 10^4 - 1.5 \times 10^7$ counts / 50µL (Typical)
Size (ExoCounter)	W210mm x D297mm x H250mm
Software	ExoCounter Application Software

"ExoCounter" is a trademark or registered trademark of JVCKENWOOD Corporation.