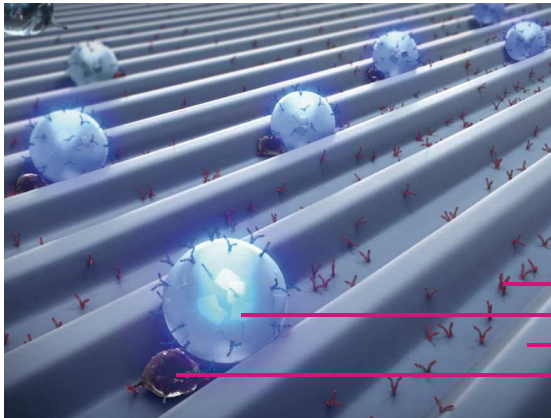


# ExoCounter\*

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

### Principle



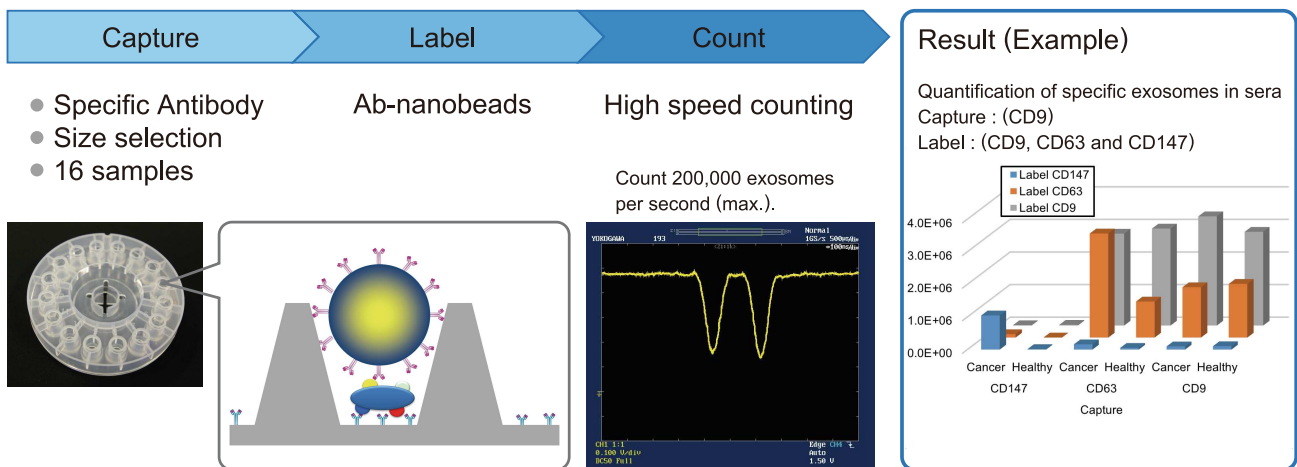
Exosome-detection with optical disc

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

- ✓ Immuno-nanobeads labeling on optical disc
- ✓ Fabrication of disc with nanostructure (200nm)
- ✓ Optical detection & digital signal processing

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

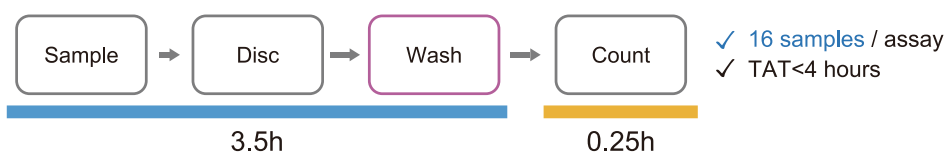
### Measurement flow



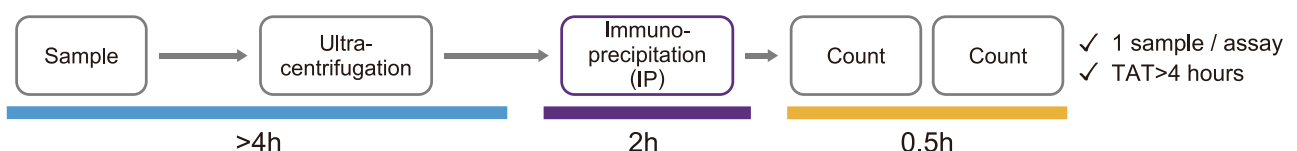
### Advantage

Comparison of methods for counting the number of specific exosomes in serum / plasma etc.

#### ExoCounter



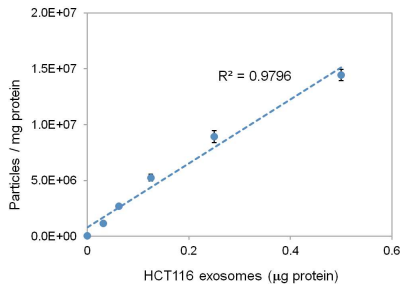
#### Nanotracking Analysis (NTA)



## Analytical Performances

### 1. Linearity and repeatability

Purified exosomes derived from HCT116 cell were spiked in the buffer.

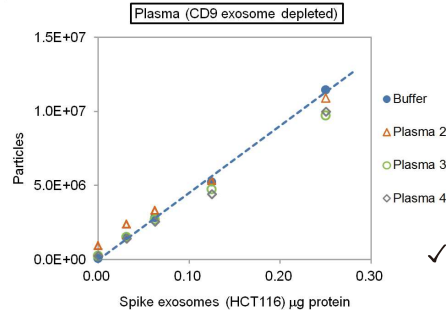


Capture: CD9  
Label: CD9

✓ R<sup>2</sup>=0.98  
✓ Average of CV=7.2%

### 2. Recovery test in plasma

Purified exosomes derived from HCT116 cell were spiked in the CD9(+)-exosome-depleted plasma and buffer.

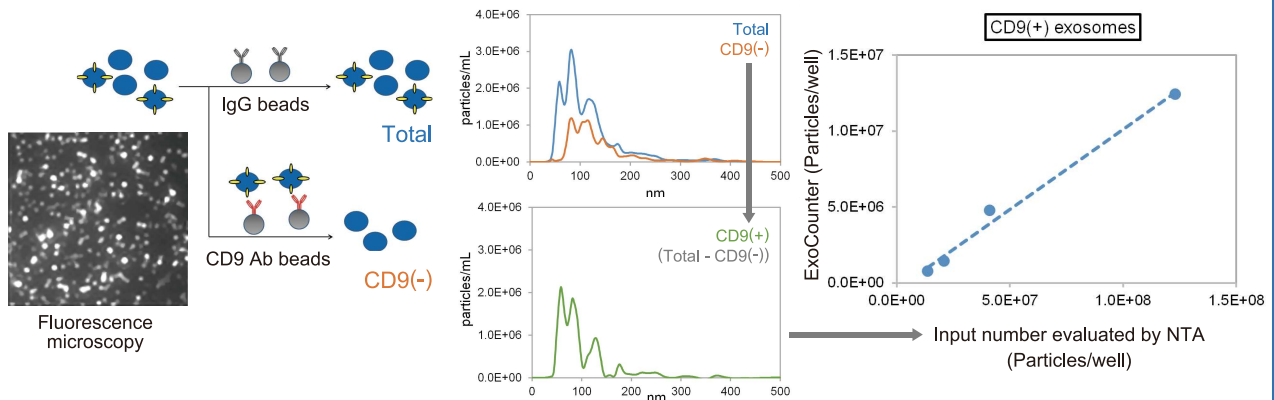


Capture: CD9  
Label: CD9

✓ Recovery rate >85% of buffer

### 3. Detection ratio of ExoCounter evaluated using nanotracking analysis (NTA)

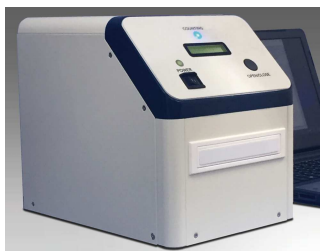
The number of CD9-positive exosomes derived from HCT116 was evaluated using NTA. The same exosomes were analyzed using ExoCounter.



✓ Detection ratio of ExoCounter was approximately 10% of NTA.

## Products

ExoCounter



Washer



Disc kit (CD9 detection)



A kit includes;  
• CD9-Disc (16 well/disc)  
• CD9-Labeling beads  
• dilution reagents

(Customization of antibody-set is available.)

Clamp plate



## Specifications

	Specifications
Principle	Digital Immnobeads assay
Sample type	Serum, Plasma, Cell culture
Loading volume	12.5µL serum / plasma
Measurement time	15 min/16wells
Measurement range	2 x 10 <sup>5</sup> - 1 x 10 <sup>7</sup> number/well
Size(ExoCounter)	W210mm x D297mm x H250mm
Software	ExoCounter Application Software