EV-R100

NanoView BIOSCIENCES

EXOVIEW™ R100 IMAGER

COMPLETE EXOSOME CHARACTERIZATION

KEY FEATURES

PURIFICATION NOT REQUIRED

Measure the changes in your sample, not the biases from your purification technique

EV SIZE

Measure the size of EVs down to 50nm

EV COUNT

Count EVs expressing specific surface markers

FLUORESCENCE

3 color fluorescence (Blue, Green, Red)

EV CARGO

Probe for EV luminal proteins and cargo

BIOMARKER COLOCALIZATION

Colocalize up to 4 biomarkers on single EVs

For Research Use Only.
Not for use in diagnostic procedures.

www.nanoviewbio.com

REQUEST A DEMO TODAY

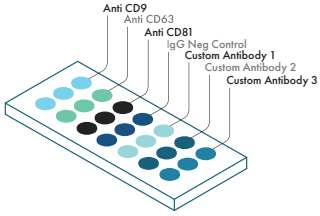
THE COMPLETE EXOVIEW™ SYSTEM

- R100 Automated Imager
- Acquisition & Analysis Software
- Tetraspanin Plasma Kit

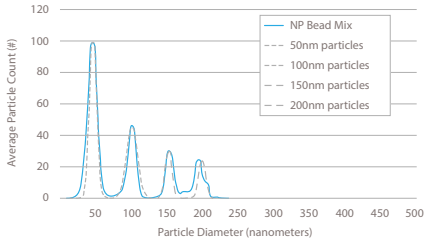
A STEP FORWARD IN SINGLE VESICLE ANALYSIS

The ExoView™ R100 is the first automated platform to provide high resolution sizing, counting, and biomarker detection at the single EV level. The multiplexed array allows for EVs to be captured against up to 6 surface proteins in parallel. Subsequent fluorescent labeling with up to 3 fluorescent dyes allows up to 4 markers to be colocalized on each individual EV. With single binding event sensitivities in fluorescence, even the smallest EVs with poorly expressed proteins can be detected, while simultaneously measuring EV size and count. Samples, including plasma and serum, can be measured without the need for purification, reducing time, cost, and biases associated with sample purification.

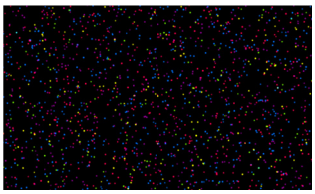
Multiplexed affinity capture of EVs onto chip surface



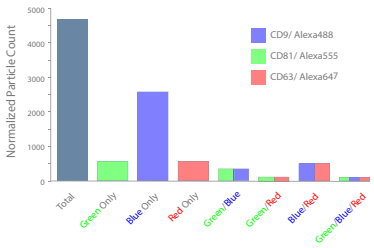
High resolution EV sizing down to 50nm



Colocalize surface and luminal proteins on single EVs (4 per EV)



Count EV subpopulations and marker colocalization percentages



PERFORMANCE

MIN. PARTICLE SIZE SCATTER	50nm	FLUORESCENCE SENSITIVITY	Better than 10 fluorescein equivalents
CONCENTRATION LINEARITY	$5x10^5$ to $1x10^8$ particles/mL	EXCITATION WAVELENGTHS	410nm, 488nm, 555nm, 640nm (scatter, fluorescence, fluorescence, fluorescence)
SAMPLE VOLUME	35µL on chip (often diluted 1:10—1:1000)	CAPTURE ANTIBODIES	Up to 6 capture antibodies (+negative control) on multiplexed single use chip

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