

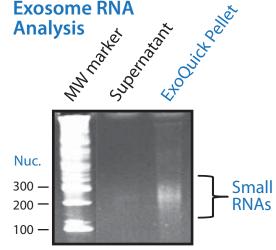
ExoQuick[™] Exosome precipitation

Simple one-step solution for isolating exosomes from biofluids Robust method for protein and microRNA biomarker discoveries microRNA Research

Highlights

- Exosomes are released from tumors in high abundance
- Exosome cargo reflects the origin and physiological state of the source cells
- MicroRNAs are found in high abundance in circulating exosomes
- Precipitate exosomes from patient biofluids easily
- Discover novel disease-specific biomarkers
- ExoQuick works with serum, plasma, tumor ascites, urine and even tissue culture media

Discover MicroRNA and Protein Biomarkers in Patient Samples



Exosome RNA

15% PA RNA Gel - SYBR green stain

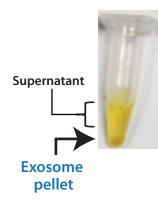
Exosomes are 40 –100 nm membrane vesicles secreted by most cell types in vivo and in vitro. Exosomes are found in blood, urine, amniotic fluid, malignant ascite fluids and contain distinct subsets of microRNAs depending upon the tumor from which they are secreted. SBI's ExoQuick exosome precipitation reagent makes microRNA biomarker discovery simple, reliable and quantitative. Enrich for circulating exosomal microRNAs with ExoQuick and accurately profile them using SBI's SeraMir[™] or QuantiMir[™] gPCR arrays.

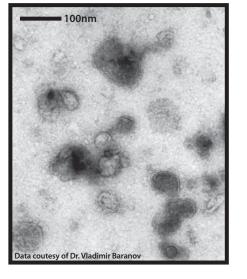
Isolate exosomes with ease

- No time-consuming ultracentrifugation
- Less expensive than costly DynaBeads
- More effective than any other method
- Use as little as 100μ l of serum or bio-fluid



Simple one-step precipitation





Exosome Marker Protein Analysis α**CD63 αCD9** (26 kDa) (25 kDa) kDa MW Sup EXO Sup EXO

55

35

27

15

Western blot analysis

www.systembio.com/microrna

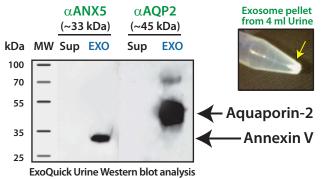
Isolate Exosomes from Ovarian Tumor Ascites fluid

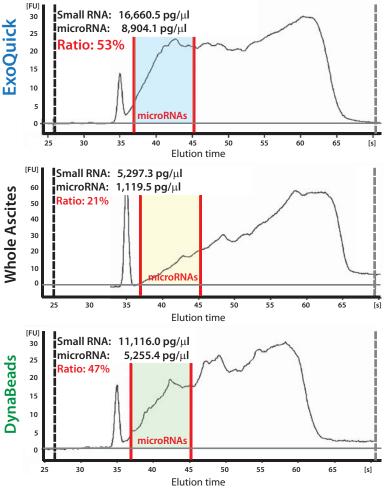
Enrich for more exosomal proteins 2.0 Exosomal Protein (mg/ml) Chromatography 1.6 DynaBeads Ultracentrifugation 1.2 ExoQuick 0.8 0.4 0. Ascites 1 Ascites 2 Ascites 3 **Placental Alkaline Phosphatase Biomarker Enrichment**



While each method purifies exosomal material, circulating exosomes isolated by ExoQuick precipitation produces exosomal RNA and protein with greater purity and quantity than chromatography, ultracentrifugation, and anti-EpCAM magnetic DynaBeads. This will enhance the sensitivity and accuracy of down-stream analyses, such as qRT-PCR profiling of microRNA and mass spectrometric and electrophoretic analyses of exosomal proteins. Identify new diagnostic and prognostic biomarkers with ExoQuick.

Precipitate Exosomes from Urine





Use ExoQuick to isolate exosomes from:

- Patient Serum and Plasma
- Patient Urine
- Patient Spinal fluid
- Patient Ascites fluids
- Works even with tissue culture media

We Also Offer Custom Services

System Biosciences offers a wide-range of custom services to support your research, allowing you to spend less time making tools, and more time making discoveries. To learn more, visit our website at www.systembio.com/service or call us at 888-266-5066.



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Isolate more exosomal microRNAs