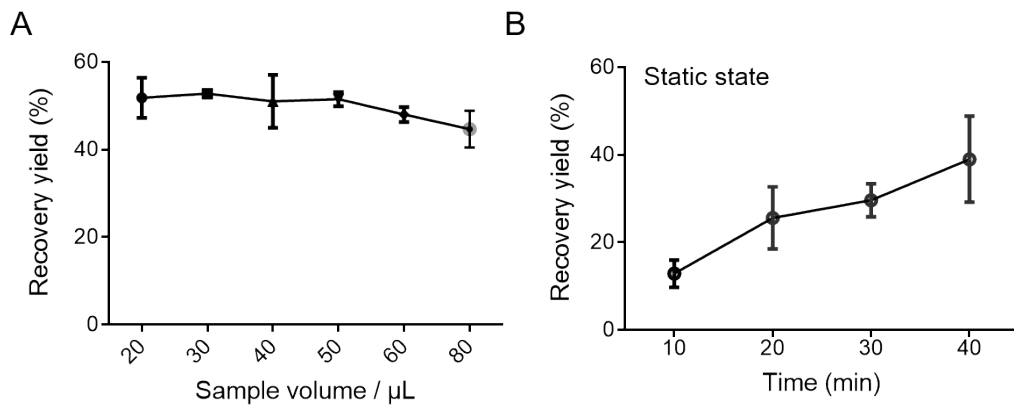


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2 **Supplementary Figure S2.** **A** The testing of nonspecific adsorption of cell trackers on  
 3 CMS chip. **B** The testing of exosome capture on the microchip without chitosan coating.  
 4 The results were characterized by fluorescence microscopy and Scanning electron  
 5 microscope.

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9 **Supplementary Figure S3.** **A** Capture rate of exosomes with different sample volume  
 10 on the same CMS chip with the shuttle flow for 12 min. **B** Capture rate of exosomes  
 11 (20  $\mu\text{L}$ ) in static state over time. The original concentration of exosomes was 85  $\mu\text{g}/\text{mL}$ .  
 12 All experiments were performed in triplicate and the data are shown as mean  $\pm$  S.D.

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1 **Supplementary Table S1. Sequence and forward primer of differentially**  
 2 **expressed miRNAs.**

name	sequence (5' to 3')	Forward primer (5' to 3')	P-value
hsa-miR-18a-3p	ACUGCCCUAAGUGCUCUUCUGG	TACTGCCCTAAGTGCTCCTTCTGG	0.259
hsa-miR-136-5p	ACUCCAUUUGUUUUGAUGAUGGA	GCGACTCCATTTGTTTGATGATGGA	0.263
hsa-miR-4685-3p	UCUCCCUUCCUGCCUGGCUAG	TCTCCCTTCCTGCCCTGG	0.273
novel 104	UUUGGGGAUUCUAAGAGGAAG	CGCGTTTGGGGATTCTAAGAGGAAG	0.293
hsa-miR-122-5p	UGGAGUGUGACAAUGGUGUUUG	CCGTGGAGTGTGACAATGGTGTITG	0.364
hsa-miR-25-5p	AGGCGGAGACUUGGGCAAUUG	AGGCGGAGACTTGGGCAATTG	0.375
hsa-miR-122-3p	AACGCCAUUUCACACUAAAUA	CGCGCAACGCCATTATCACACTAAATA	0.461
novel 16	UGAGCGCCUCGACGACAGAGC	TGAGCGCCTCGACGACA	0.573
novel 119	UCGGCUGUGUAUCUCUGUGU	CGTCGGCTGTGTATCTCTGTGT	0.574
novel 38	CAACGGAAUCCCAAAAGCAGCUG	CAACGGAAATCCCAAAAGCAGCTG	0.607
hsa-miR-4707-3p	AGCCCGCCCCAGCCGAGGUUCU	TATATAGCCCCGCCCCAGCC	0.623
hsa-miR-125b-5p	UCCUGAGACCCUAACUUGUGA	CCTCCCTGAGACCCTAACTTGTGA	0.657
hsa-miR-455-5p	UAUGUGCCUUUGGACUACAUCG	CGCTATGTGCCTTTGGACTACATCG	0.687
hsa-miR-146b-5p	UGAGAACUGAAUCCAUAGGCUG	CGCTGAGAACTGAATTCATAGGCTG	0.696
hsa-miR-486-3p	CGGGGCAGCUCAGUACAGGAU	TATACGGGGCAGCTCAGTACAGG	0.767
hsa-miR-1246	AAUGGAUUUUUGGAGCAGG	CGCGAATGGATTTTGGAGCAGG	0.792
novel 67	UGCGGGGCUAGGGCUAACAGC	TGCGGGGCTAGGGCTAA	0.864
novel 68	CAUGCCUUGAGUGUAGGACCG	CCATGCCTTGAGTGTAGGACCG	0.874
novel 106	UUCAACGGGUUUUUAUUGAGC	CGCCGTTCAACGGGTATTTATTGAGC	0.969
novel 81	UCCGUAGGGUUCGGGCCUU	TATACGGGTAGGGTTCGGGC	0.992
novel 77	ACAGGAGUGGGGGUGGGACGU	ACAGGAGTGGGGGGTGG	###

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