Divalent Aptamer-Functionalized Nanochannels for Facile Detection of Cancer Cell-Derived Exosomes

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Table S1. DNA sequences used in this work.

Name	Sequence (5'-3')
Apt-CD63	CHO-$(CH_2)_6$-CACCCCACCTCGCTCCCGTGACAC TAATGCTA
Apt-EpCAM	CHO-$(CH_2)_6$-CACTACAGAGGTTGCGTCTGTCCC ACGTTGTCATGGGGGGTCCTG
Random DNA	CHO-$(CH_2)_6$-GGGGTGGGGTAGTGGTATGGAGC G

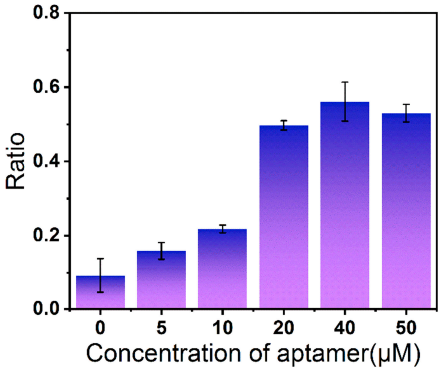

Figure S1. Change of current *vs* the concentration of dual aptamers. Ratio represents the value of $|(I - I_0)/I_0|$ (I_0 and I are the current values at −1.2 V in the absence and existence of HeLa cell-derived exosomes respectively). Error bars represent the standard deviations of three parallel measurements.

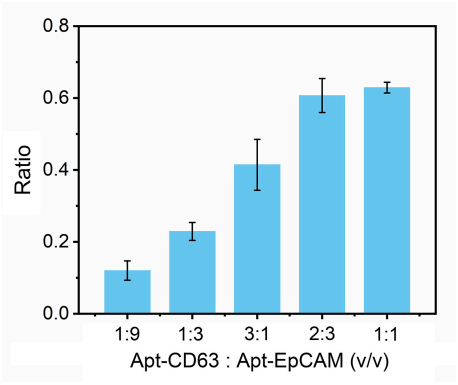

Figure S2. Change of current *vs* the volume ratio of Apt-CD63 to Apt-EpCAM. Ratio represents the value of $|(I - I_0)/I_0|$ (I_0 and I are the current values at −1.2 V in the absence and existence of HeLa cell-derived exosomes respectively). Error bars represent the standard deviations of three parallel measurements.

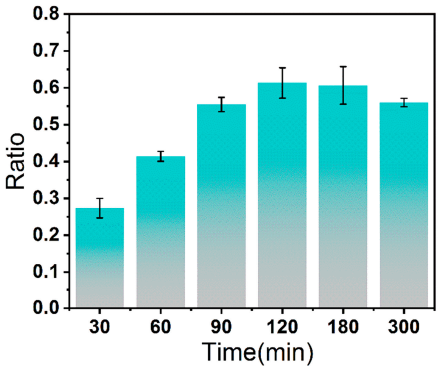

Figure S3. Change of current *vs* the incubation time of exosomes. Ratio represents the value of $|(I - I_0)/I_0|$ (I_0 and I are the current values at −1.2 V in the absence and existence of HeLa cell-derived exosomes respectively). Error bars represent the standard deviations of three parallel measurements.