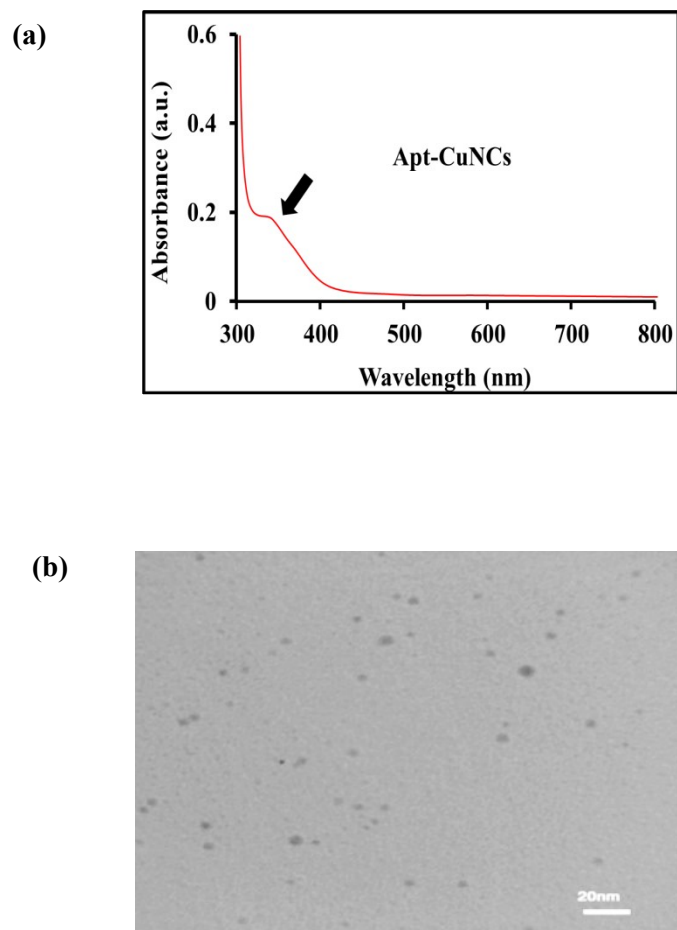## Supplementary

Figure legend

Fig. S1 (a) UV-Vis spectrum of Apt-CuNCs, (b) A TEM image of Apt-CuNCs dispersed on a copper grid.

Fig. S2 (a) UV-Vis spectrum of Apt-AuNCs, (b) A TEM image of Apt-AuNCs dispersed on a copper grid. Nanoparticles showed by arrows.

Fig. S3 (a) Synthesis of Apt-AgNCs in different buffers, (b) UV-Vis spectrum of Apt-AgNCs prepared in Na-phosphate buffer, (c) A TEM image of Apt-AgNCs dispersed on a copper grid.

Table legend

Table S1 CD44 *v10* specific aptamers (native & modified) used for synthesis of Apt-nanoclusters

Supplemantry Data

(a)

(b)

Fig. S1 (a) UV-Vis spectrum of Apt-CuNCs, (b) A TEM image of Apt-CuNCs dispersed on a copper grid.
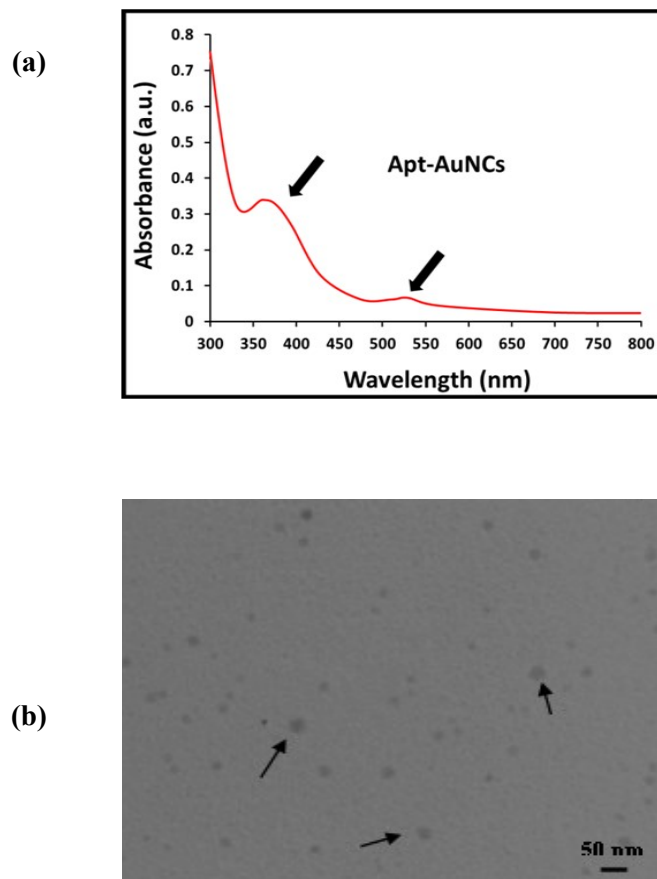
(a)

(b)

Fig. S2 (a) UV-Vis spectrum of Apt-AuNCs, (b) A TEM image of Apt-AuNCs dispersed on a copper grid. Nanoparticles showed by arrows.
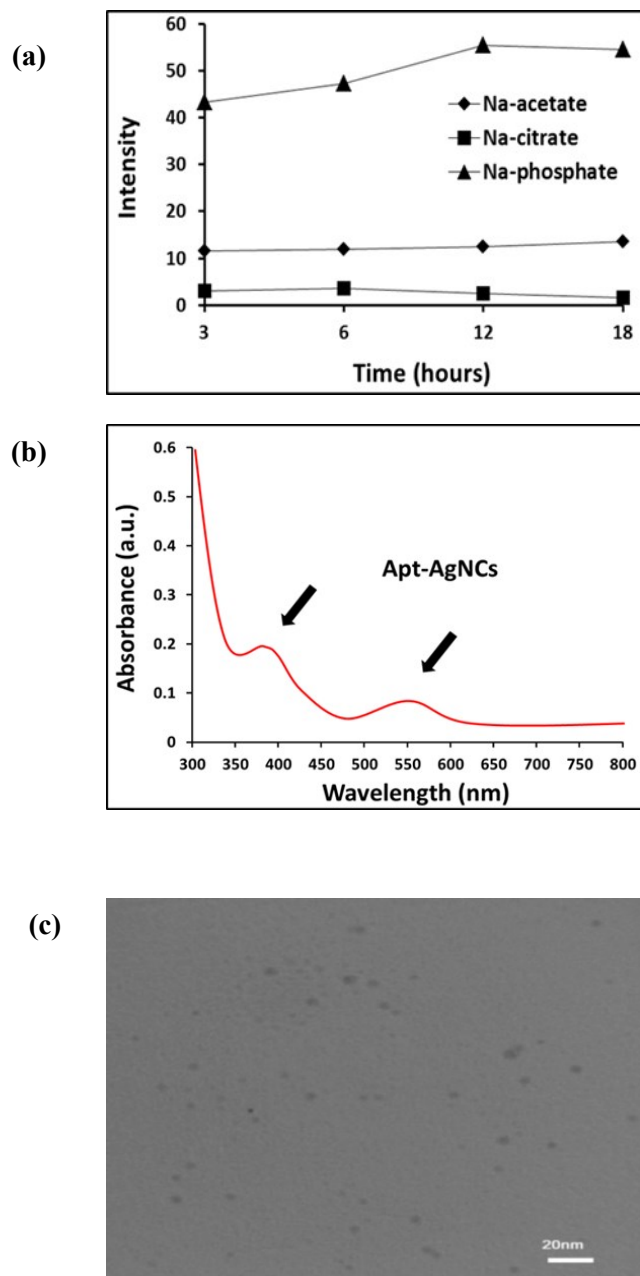
Fig. S3 (a) Synthesis of Apt-AgNCs in different buffers, (b) UV-Vis spectrum of Apt-AgNCs prepared in Na-phosphate buffer, (c) A TEM image of Apt-AgNCs dispersed on a copper grid.

Table S1 CD44 *v10* specific aptamers (native & modified) used for synthesis of Apt-nanoclusters

Name	Type	Sequence
Apt7	native	5′- CCGCGAACCCCCCCCCTTAATGTCA -3′
M-Apt7	modified	5′ - (T12)AAACCGCGAACCCCCCCCCTTAATGTCA -3′
Apt4	native	5′- CTCCCAGCCCCTCACGTCAGCCCGC -3′
M-Apt4	modified	5′- (T12)AAACTCCCAGCCCCTCACGTCAGCCCGC -3′