

## Supplementary Information

### **Ionizable Mesoporous Silica Nanoparticles Mediated siAURKB Delivery for Colorectal Cancer Therapy**

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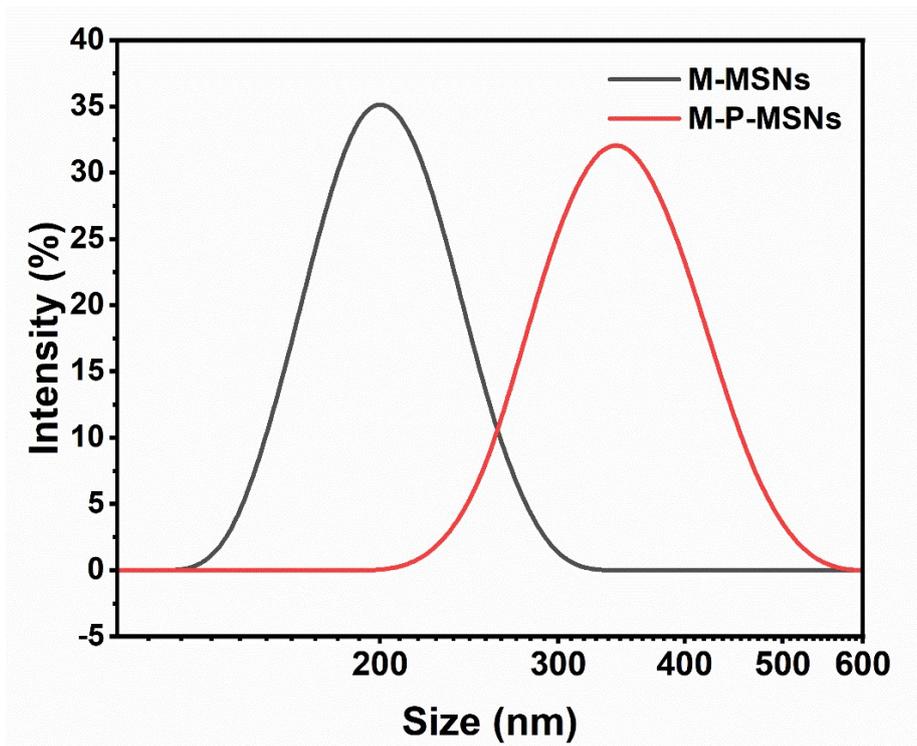
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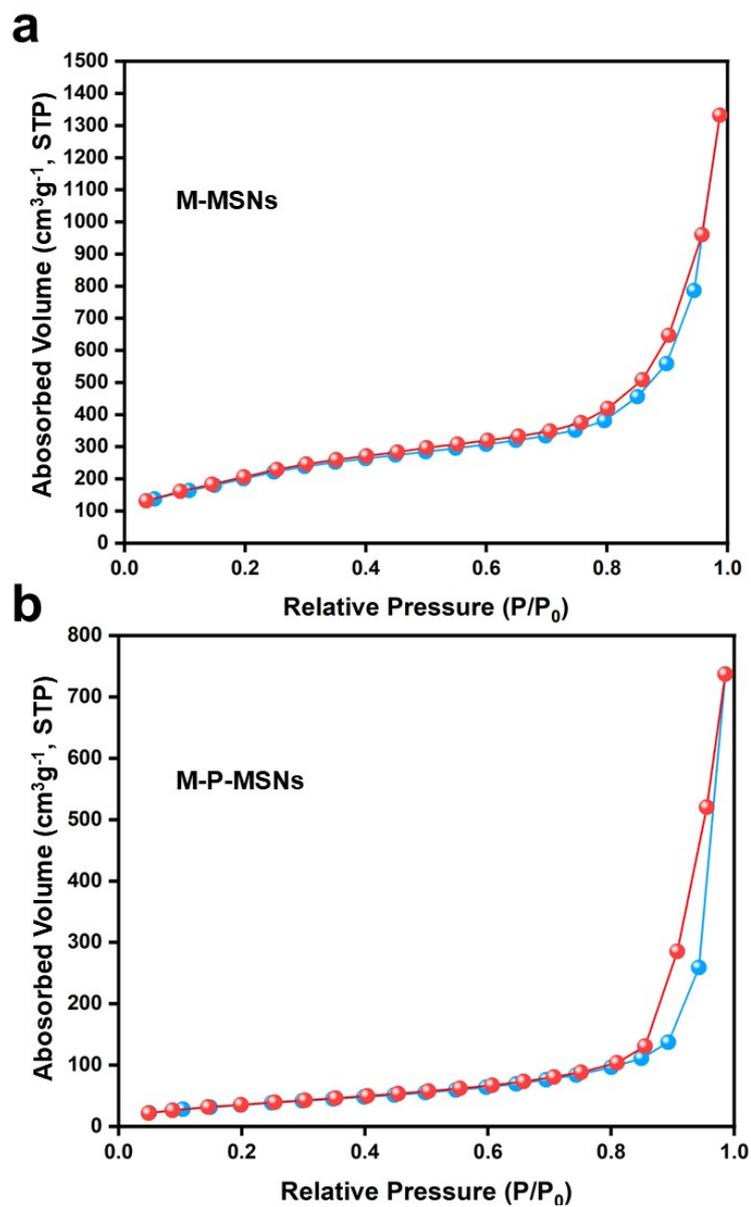
## Supplementary Tables and Figures

**Table S1** Sequences of siRNA used in this study.

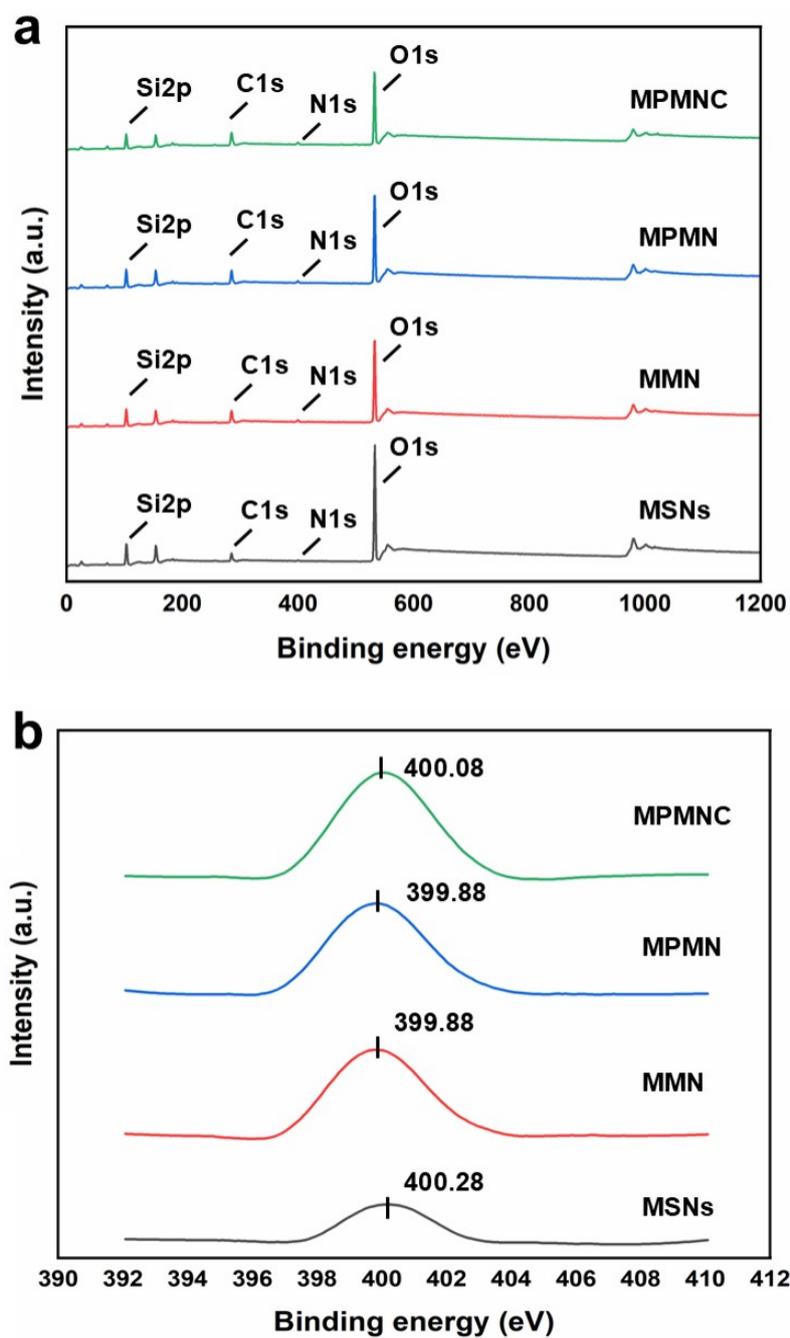
<b>Names</b>	<b>Sense strand</b>	<b>Antisense strand</b>
Cy5-siNC	UUCUCCGAACGUGUCACGUTT	ACGUGACACGUUCGGAGAATT
siEGFP	GGCUACGUCCAGGAGCGCACC	UGCVCUCCUGGACGUAGCCUU
siAURKB	AGAAGUUGGCUGAGAACAA	UUGUUCUCAGCCAACUUCU



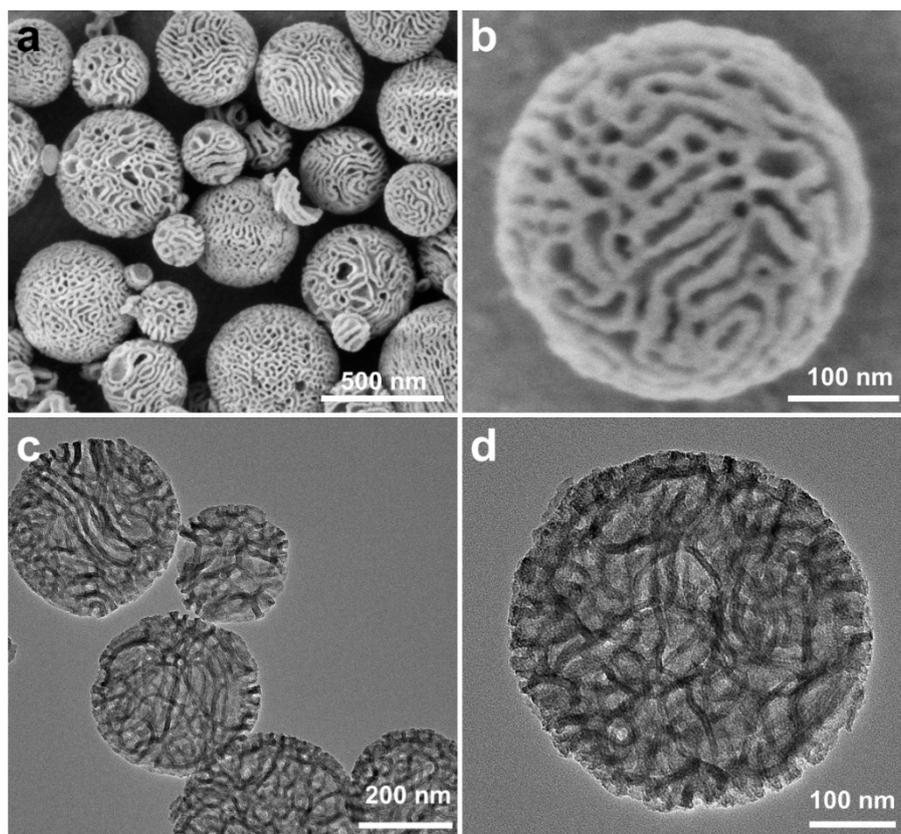
**Fig. S1** DLS curves of M-MSNs and M-P-MSNs in ultra-pure water.



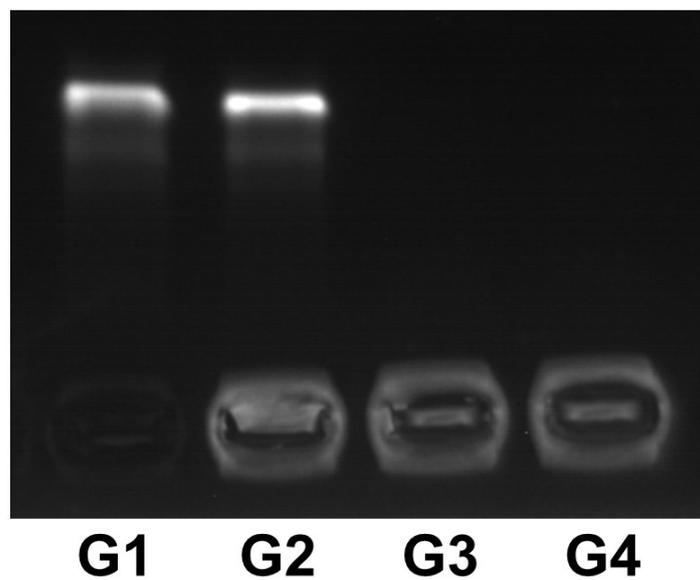
**Fig. S2**  $\text{N}_2$  sorption isotherms of M-MSNs (a) and M-P-MSNs (b).



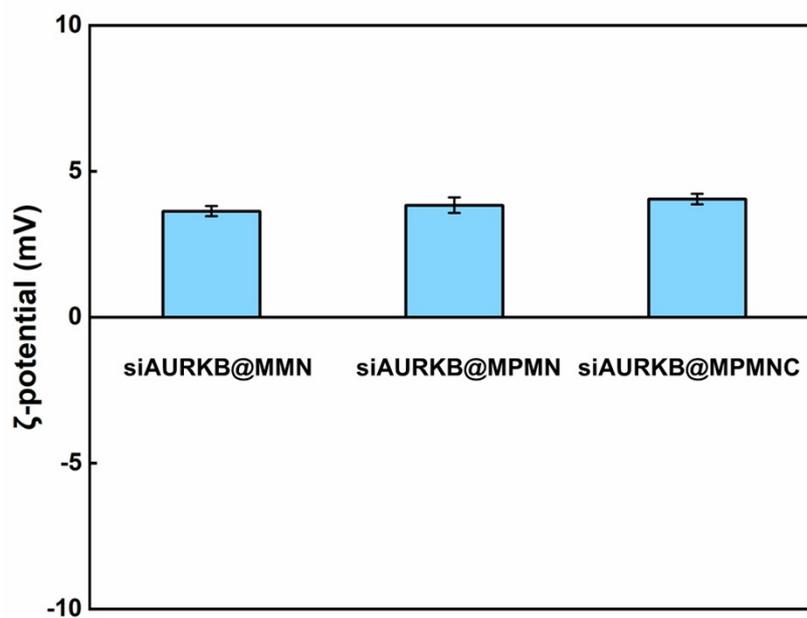
**Fig. S3** XPS spectra (a) and high-resolution N 1s spectra (b) of MSNs, MMN, MPMN and MPMNC.



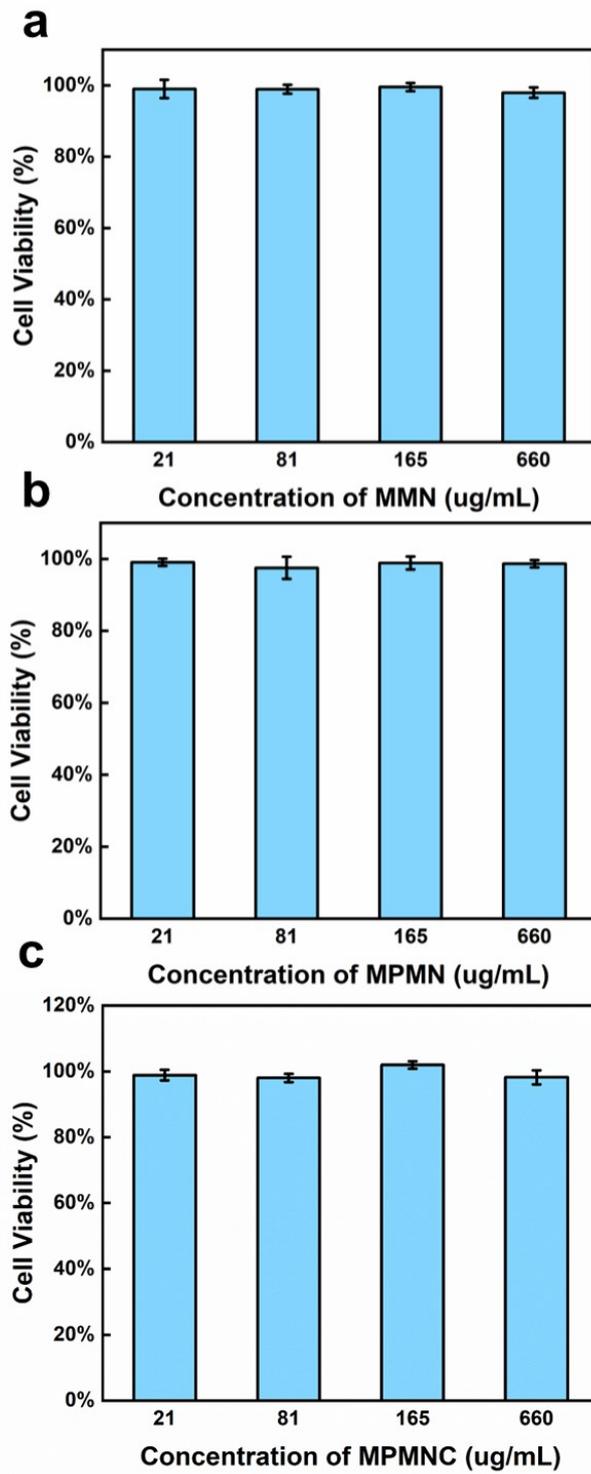
**Fig. S4** SEM (a, b) and TEM (c, d) images of MPMNC.



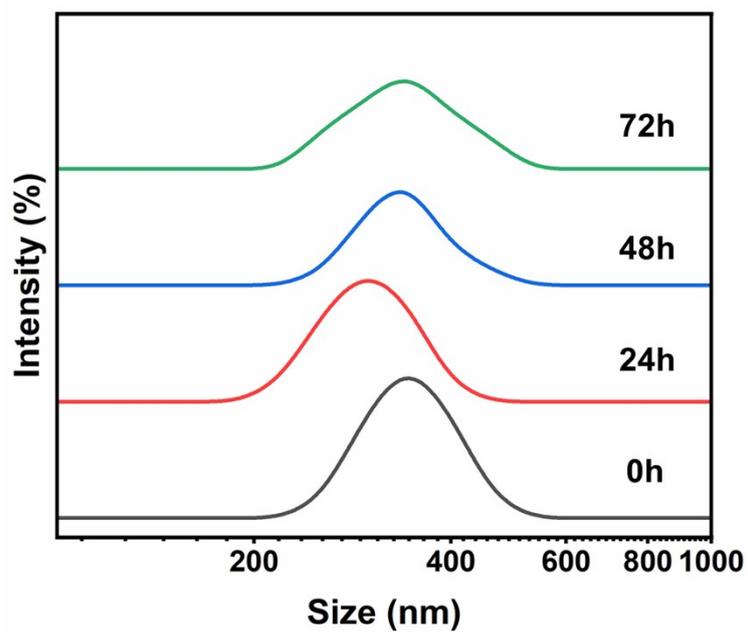
**Fig. S5** Agarose gel electrophoresis of siNC@MSNs. G1: free siNC, G2: siNC@MMN, G3: siNC@MPMN, G4: siNC@MPMNC; mass ratio of MSNs/siNC: 25/1.



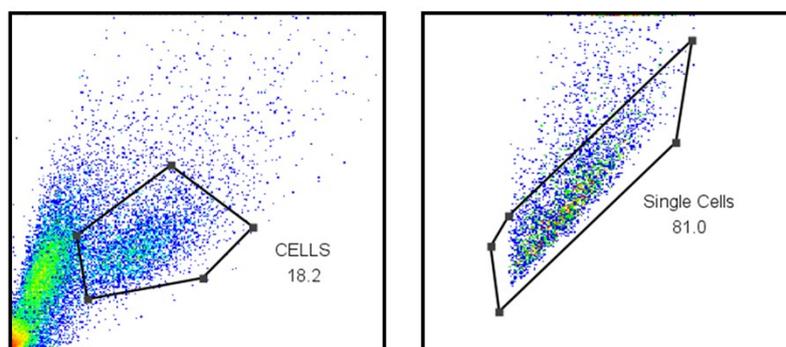
**Fig. S6** Zeta potentials of various silica nanoparticles following siRNA loading.



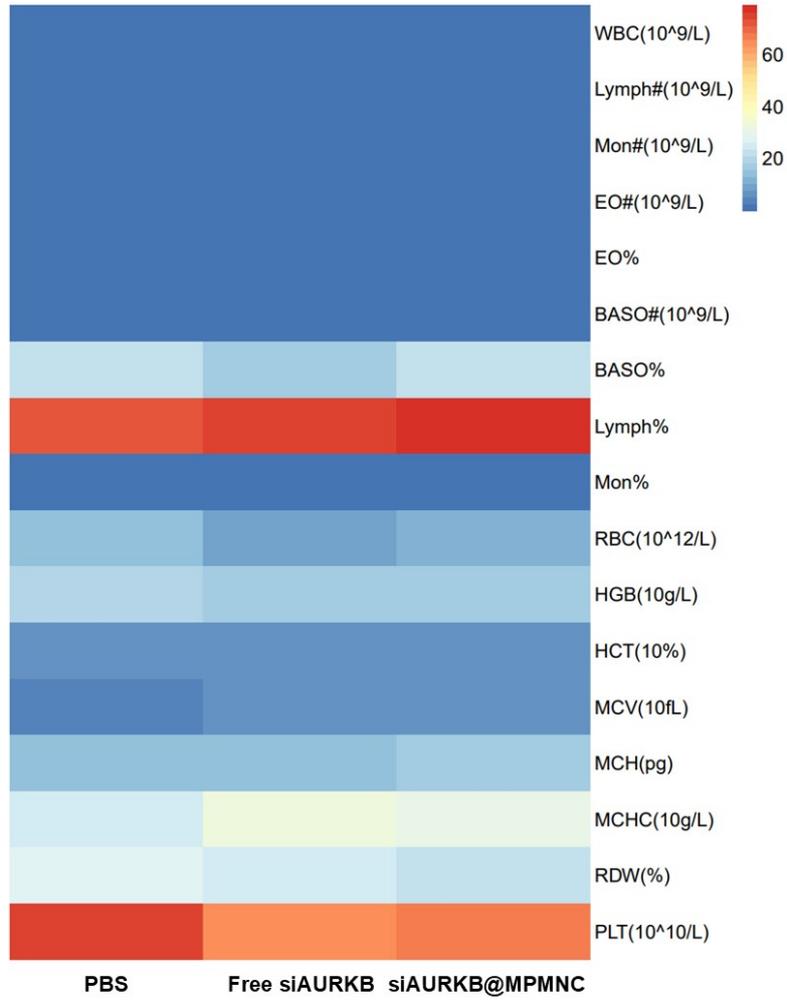
**Fig. S7** Cytotoxicity of MMN (a), MPMN (b) and MPMNC (c) with different concentrations.



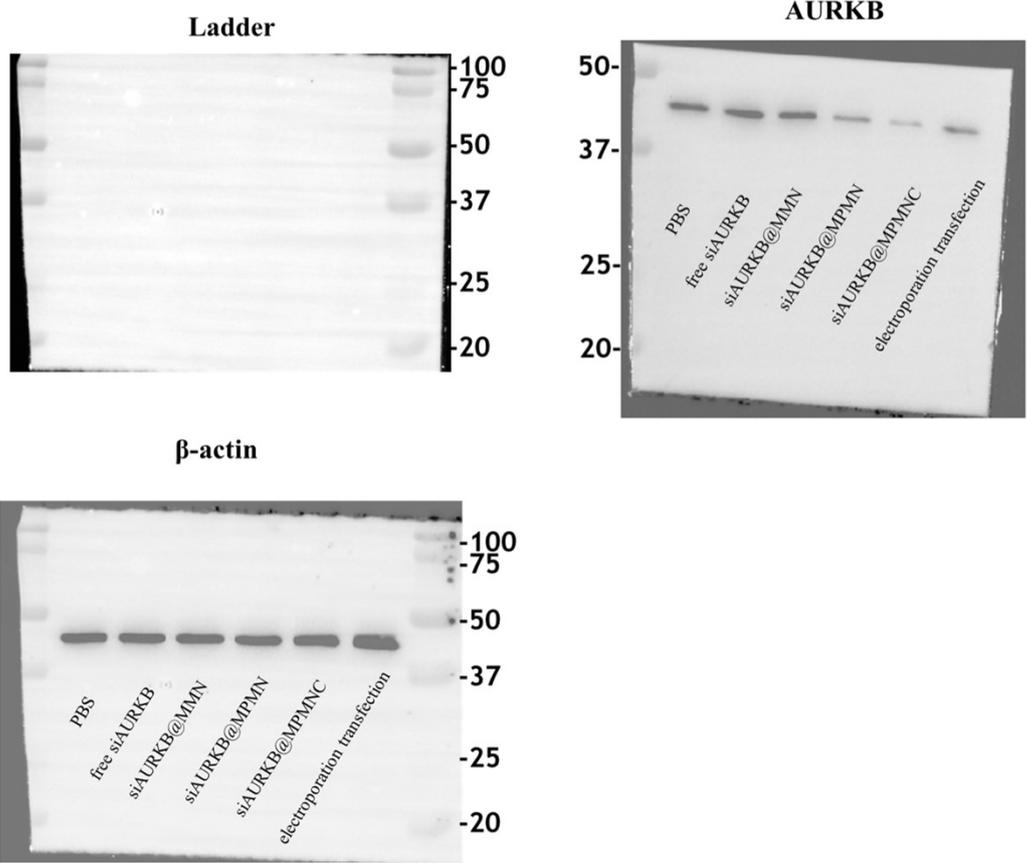
**Fig. S8** DLS measurements of siAURKB@MPMNC in PBS with 10% serum over 0–72 h.



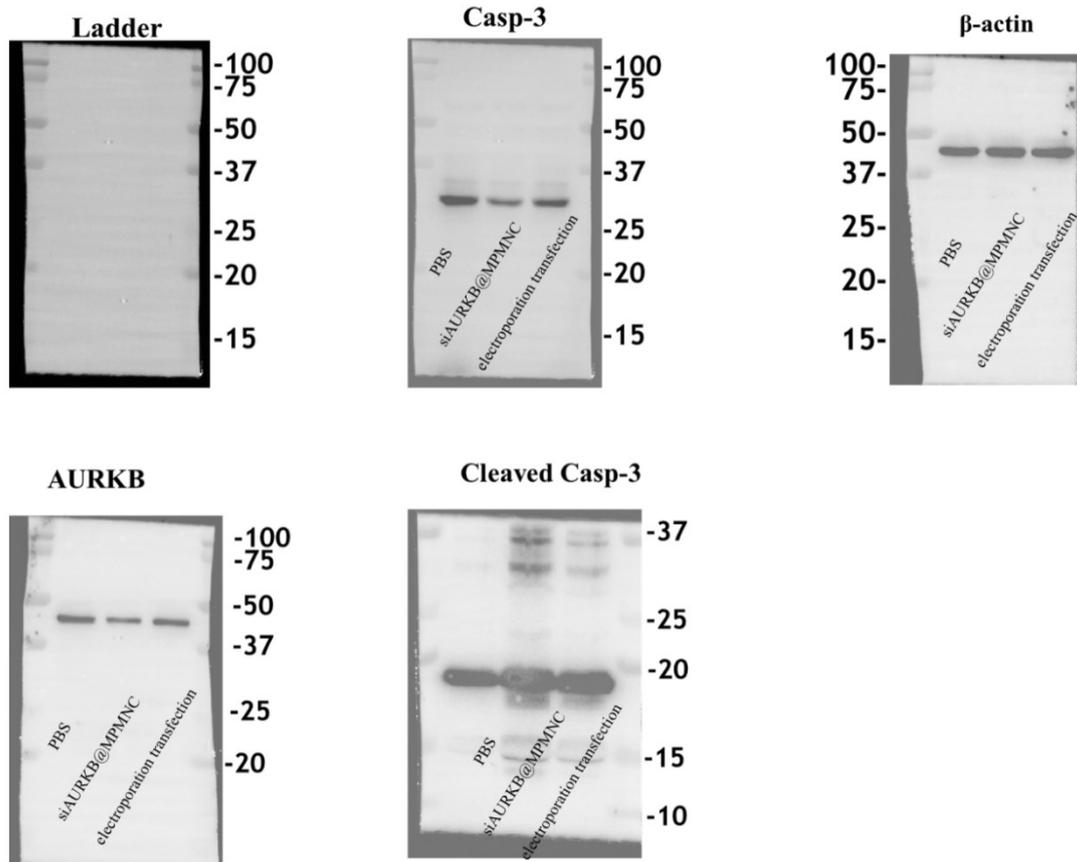
**Fig. S9** Flow Cytometry Gating Strategy.



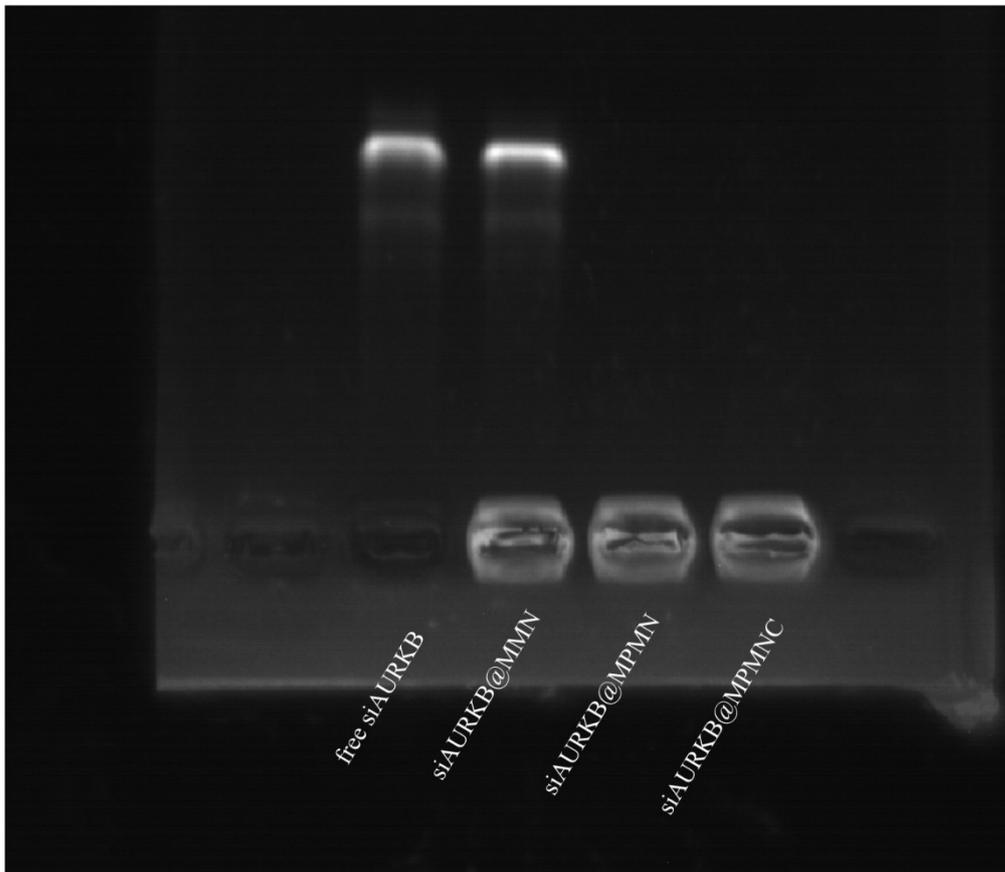
**Fig. S10** Hematological analysis of PBS, free siAURKB and siAURKB@MPMNC treated mice (n = 4 mice per group).



**Fig. S11** Raw western blot data for **Fig. 4e**.



**Fig. S12** Raw western blot data for **Fig. 4f**.



**Fig. S13** Raw agarose gel electrophoresis data (whole gel electrophoresis image) for **Fig. S5**.