

## Supplementary Materials for

### **Targeting pulmonary tumor microenvironment with CXCR4-inhibiting nanocomplex to enhance anti-PD-L1 immunotherapy**

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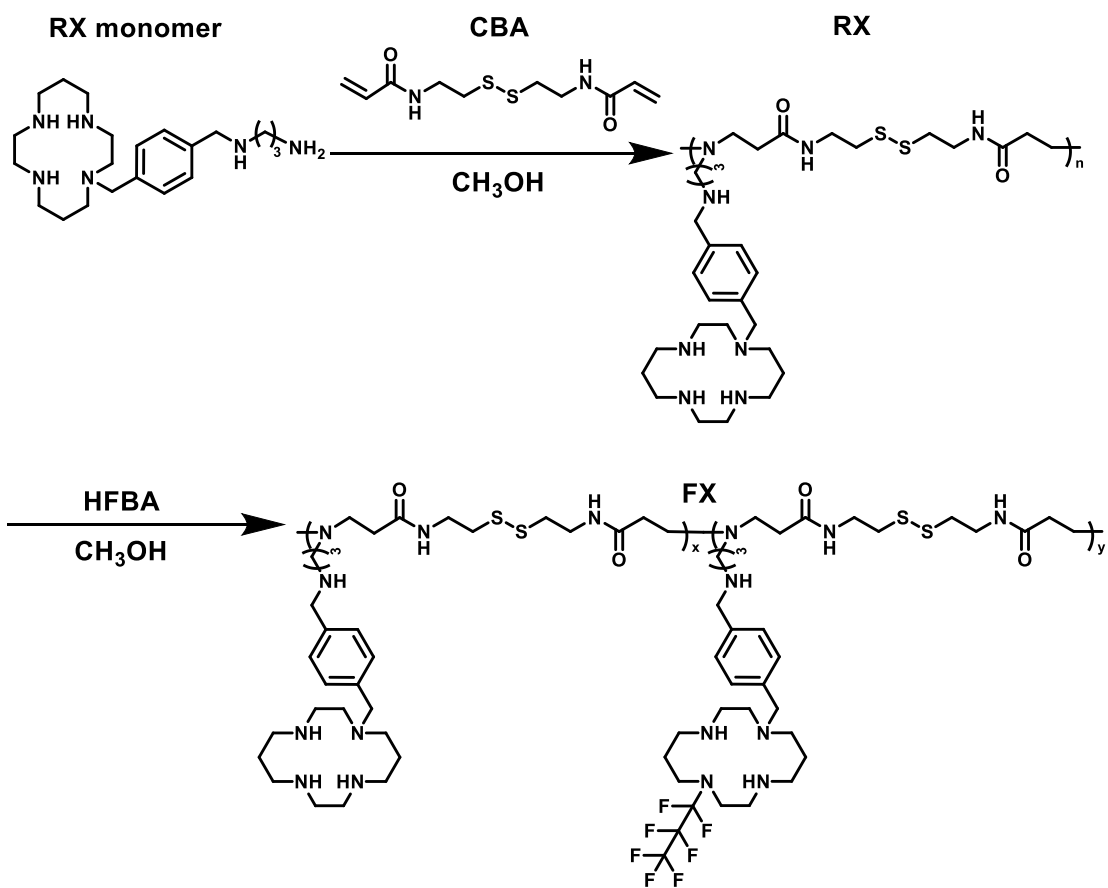
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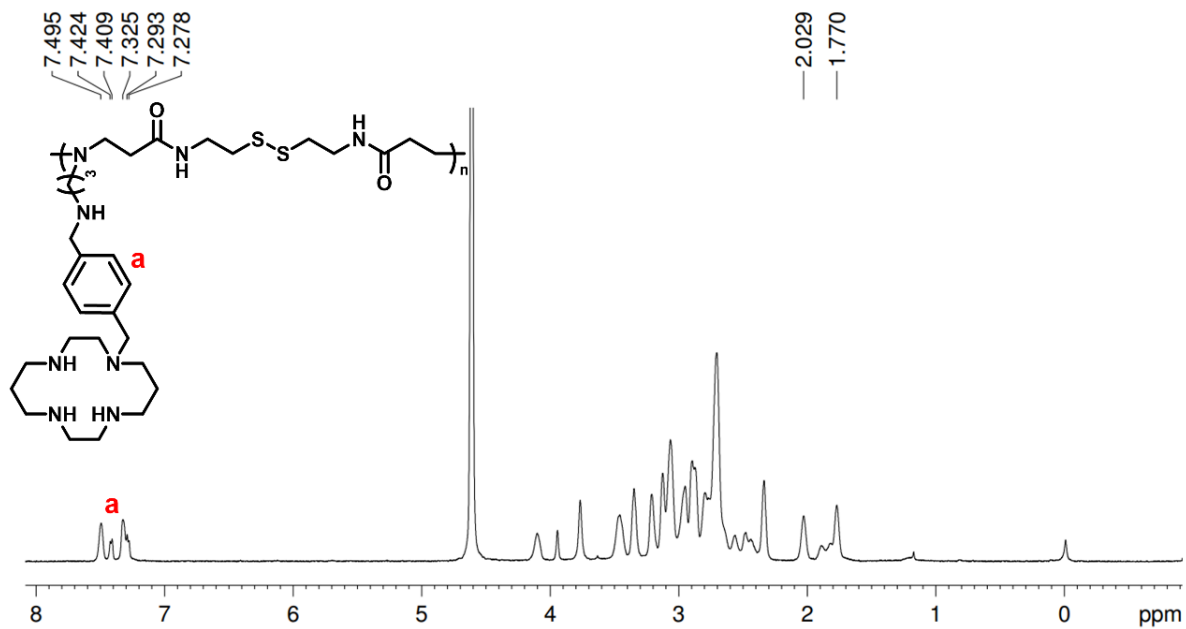
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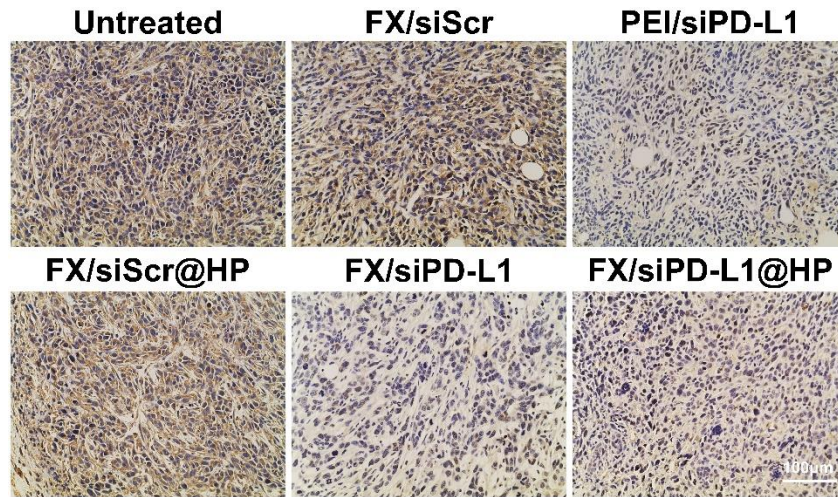
Figs. S1 to S6



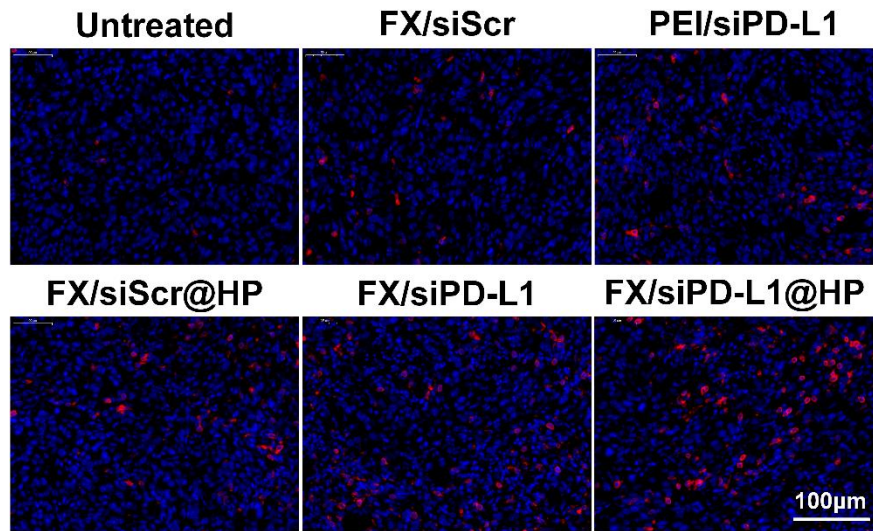
**Fig. S1.** Chemical synthesis of FX.



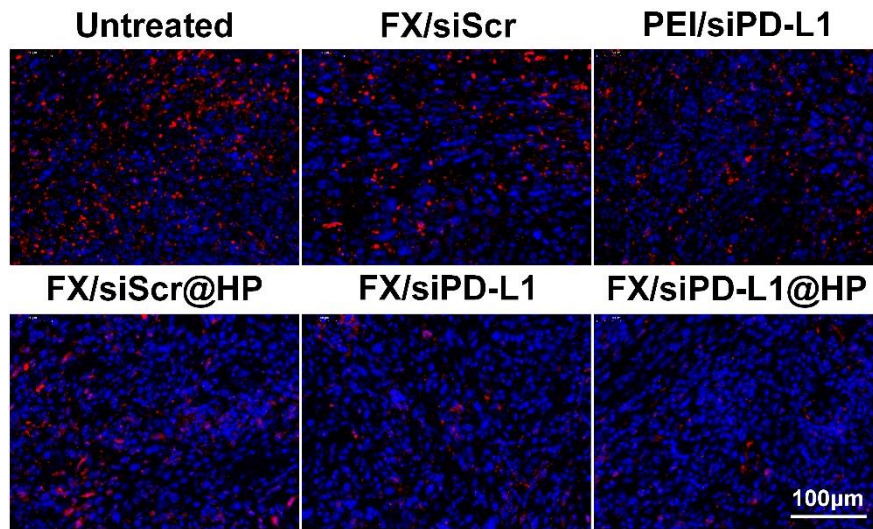
**Fig. S2.**  $^1\text{H}$  NMR spectrum of RX.



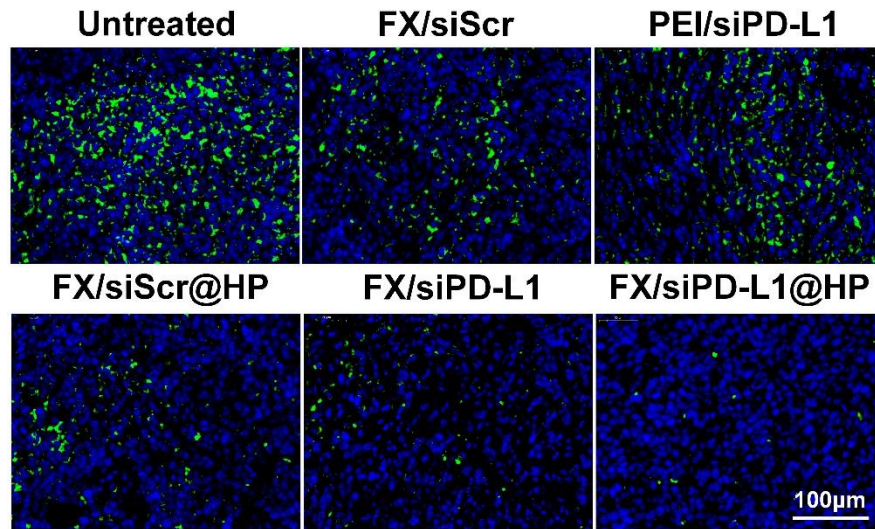
**Fig. S3.** *In vivo* PD-L1 silence determined by immunohistochemistry assay



**Fig. S4.** CD8<sup>+</sup> T cells infiltration determined by immunofluorescence assay



**Fig. S5.** IL-10 expression determined by immunofluorescence assay



**Fig. S6.** TGF- $\beta$  expression determined by immunofluorescence assay