

Fluorescence Super-Resolution Imaging Chip for Gene Silencing

Exosomes

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Supplementary Table S1. The sequences of docking and imager strands for individual biomarker.

Identification	Sequences
Docking strands for PD-L1	5'-Azide-TTATCTACATA-3'
Imager strands for PD-L1	5'-TATGTAGATC-Cy5-3'
CD63 adaptor strands	5'-CAC CCC ACC TCG CTC CCG TGA CAC TAA TGC TA- (CH ₂) ₆ -NH ₂ -3'
PD-L1 adaptor strands	5'-Alexa Fluor 647-T ACA GGT TCT GGG GGG TGG GTG GGG AAC CTG TT-3'
PD-L1 siRNA sense strand	5'-GGAUAAGAACAUAUUCAA[dT][dT]-3'
PD-L1 siRNA antisense strand	5'-UUGAAUAAUGUUCUAUCC[dT][dT]-3'

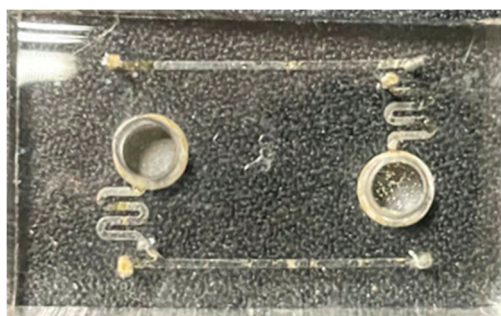


Figure S1. The photograph of the microfluidic chip.

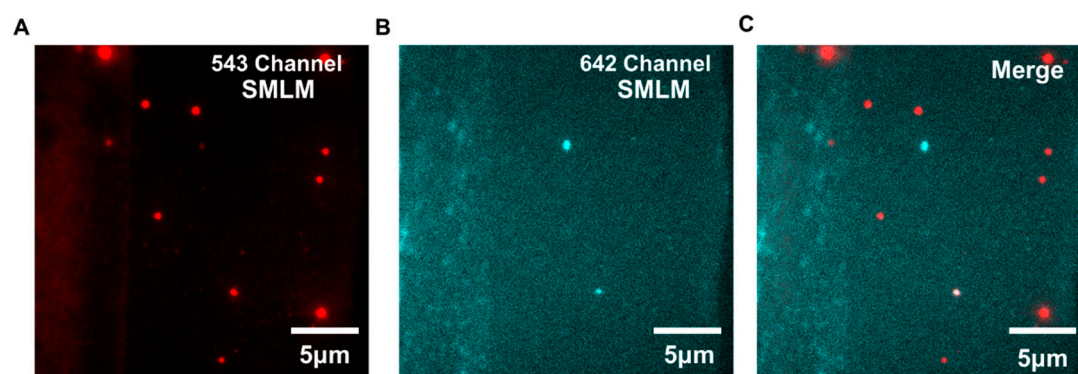


Figure S2. Investigating the specificity of PD-L1 aptamers toward exosomal PD-L1 using nonspecific control probes. (A) PKH26 membrane dye channel (exosomes), (B) Alexa fluor 647

channel (control probes), (C) merged image of the two channels.