

**Supplementary Table 1.**Mean  $\pm$  SD of treatment start tumor volumes.

Figure	Treatment group	Mean $\pm$ SD tumor volume at start of treatment (mm <sup>3</sup> )	P values
1B	RT + PBS + IgG (LLC)	232.08 $\pm$ 94.12	0.5839
1B	RT + L19-IL2 + IgG (LLC)	195.43 $\pm$ 72.98	
1B	RT + PBS + anti-CTLA-4 (LLC)	211.30 $\pm$ 54.80	
1B	RT + L19-IL2 + anti-CTLA-4 (LLC)	245.18 $\pm$ 86.88	
1B	RT + PBS + anti-PD-L1 (LLC)	243.06 $\pm$ 55.87	
1B	RT + L19-IL2 + anti-PD-L1 (LLC)	201.68 $\pm$ 28.75	
1B	RT + PBS + anti-PD-1 (LLC)	208.58 $\pm$ 76.03	
1B	RT + L19-IL2 + anti-PD-1 (LLC)	261.81 $\pm$ 106.3	
1C	RT + PBS + IgG (CT26)	266.76 $\pm$ 29.58	0.2774
1C	RT + L19-IL2 + IgG (CT26)	244.37 $\pm$ 80.79	
1C	RT + PBS + anti-CTLA-4 (CT26)	229.08 $\pm$ 26.77	
1C	RT + L19-IL2 + anti-CTLA-4 (CT26)	236.94 $\pm$ 38.21	
1C	RT + PBS + anti-PD-L1 (CT26)	211.56 $\pm$ 31.08	
1C	RT + L19-IL2 + anti-PD-L1 (CT26)	219.72 $\pm$ 57.80	
1D	RT + PBS + IgG (C51)	227.25 $\pm$ 53.65	0.5018
1D	RT + L19-IL2 + IgG (C51)	197.27 $\pm$ 22.56	
1D	RT + PBS + anti-CTLA-4 (C51)	222.41 $\pm$ 36.10	
1D	RT + L19-IL2 + anti-CTLA-4 (C51)	200.31 $\pm$ 43.66	
1D	RT + PBS + anti-PD-L1 (C51)	195.33 $\pm$ 16.29	
1D	RT + L19-IL2 + anti-PD-L1 (C51)	206.01 $\pm$ 37.79	
2B	RT + PBS + IgG (LLC)	235.86 $\pm$ 50.82	0.4065
2B	RT + L19-IL2 + IgG (LLC)	190.84 $\pm$ 61.46	
2B	RT + PBS + anti-PD-L1 (LLC)	235.86 $\pm$ 50.82	
2B	RT + L19-IL2 + anti-PD-L1 (LLC)	235.36 $\pm$ 29.04	
3C	RT + L19-IL2 + anti-PD-L1 + IgG (LLC)	220.22 $\pm$ 24.45	0.4815
3C	RT + L19-IL2 + anti-PD-L1 + anti-CD8 (LLC)	188.86 $\pm$ 18.59	
3C	RT + L19-IL2 + anti-PD-L1 + anti-NK1.1 (LLC)	179.30 $\pm$ 30.91	
3C	RT + L19-IL2 + anti-PD-L1 + anti-CD8 + anti-NK1.1 (LLC)	189.30 $\pm$ 23.29	
SF 4A	RT + PBS + IgG (CT26)	249.80 $\pm$ 26.26	0.143
SF 4A	RT + L19-IL2 + IgG (CT26)	232.13 $\pm$ 36.77	
SF 4A	RT + L19-IL2 + anti-CTLA-4 (CT26)	217.19 $\pm$ 32.81	
SF 4A	RT + L19-IL2 + anti-PD-L1 (CT26)	277.38 $\pm$ 60.76	
SF 4A	RT + PBS + anti-PD-1 (CT26)	249.25 $\pm$ 64.31	
SF 4A	RT + L19-IL2 + anti-PD-1 (CT26)	249.88 $\pm$ 55.70	
SF 4B	RT + PBS + IgG (C51)	261.21 $\pm$ 94.29	0.840
SF 4B	RT + L19-IL2 + IgG (C51)	233.15 $\pm$ 41.35	
SF 4B	RT + PBS + anti-PD-1 (C51)	277.50 $\pm$ 118.91	
SF 4B	RT + L19-IL2 + anti-PD-1 (C51)	243.94 $\pm$ 133.43	