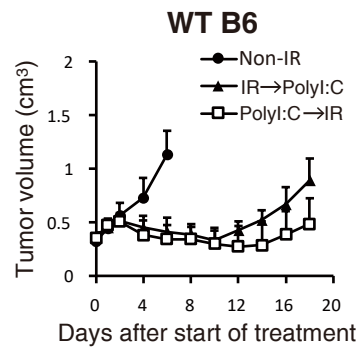
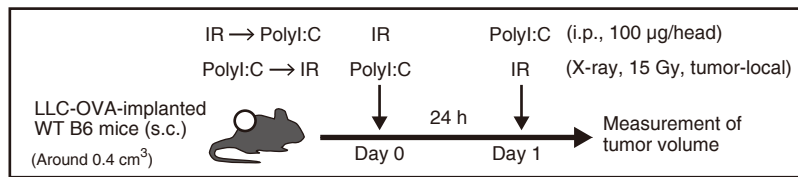


**Table S1. Antibodies used in this study.**

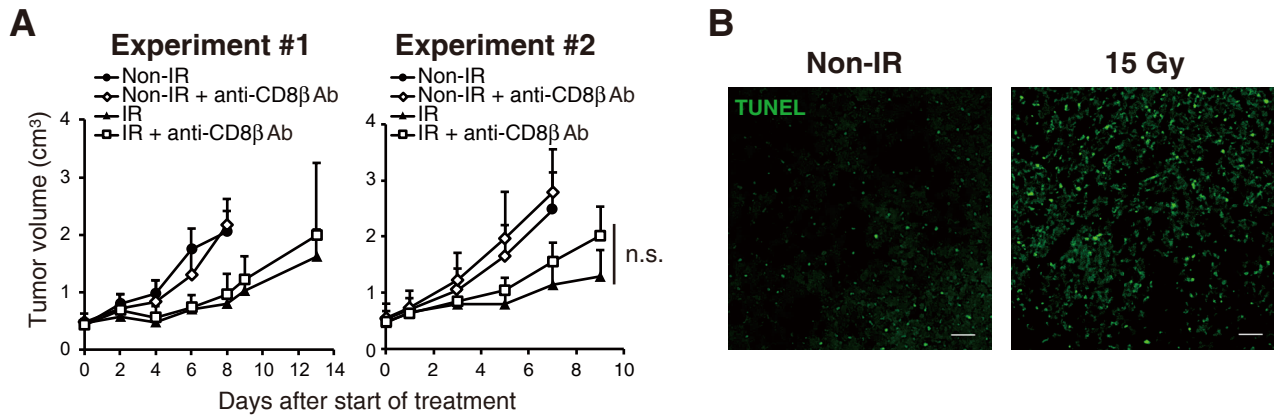
Antibody (and related reagent)	Clone	Supplier
FITC-anti-mouse CD3 $\epsilon$	145-2C11	Biolegend
PE/Cy7-anti-mouse CD3	17A2	
AlexaFluor700-anti-mouse CD8 $\alpha$	53-6.7	
APC-anti-mouse CD8 $\alpha$		
PE/Cy7-anti-mouse/human CD11b	M1/70	
APC-anti-mouse CD11c	N418	
PE/Cy7-anti-mouse CD11c		
APC-anti-mouse/human CD44	IM7	
AlexaFluor700-anti-mouse CD45.2	104	
APC/Cy7-anti-mouse CD45.2	30-F11	
FITC-anti-mouse CD62L	MEL-14	
APC-anti-mouse F4/80	BM8	
FITC-anti-mouse F4/80		
APC-anti-mouse Ly6G/Ly6C (Gr-1)	RB6-8C5	
PE-anti-mouse TNF- $\alpha$	MP6-XT22	
Purified anti-mouse CD16/32 *used in Fc blocking	93	
PE-Rat IgG1, $\kappa$ *Isotype control of PE-anti-mouse TNF- $\alpha$	BM2a	eBioscience
T-select H-2Kb OVA Tetramer-SIINFEKL-PE		MBL
ViaProbe *used for excluding dead cells		BD Bioscience

**Table S2. Primers for RT-qPCR used in this study.**

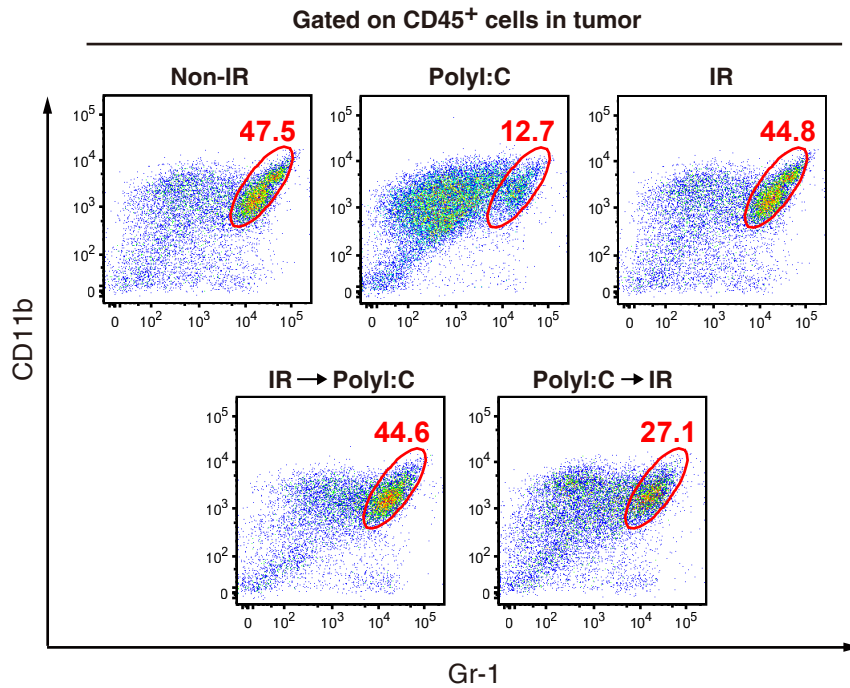
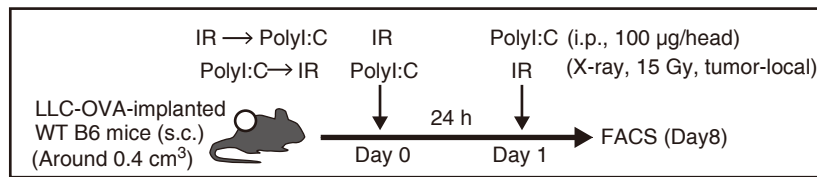
	Forward	Reverse
<i>Ccl3</i>	5'-TTGAAACCAGCAGCCTTTGC-3'	5'-CTTTGGAGTCAGCGCAGATCT-3'
<i>Ccl4</i>	5'-GCCCTCTCTCCTCTTGCT-3'	5'-GGAGGGTCAGAGCCATT-3'
<i>Ccl5</i>	5'-TGCCACGTC AAGGAGTATTT-3'	5'-TCGAGTGACAAACACGACTGC-3'
<i>Cxcl9</i>	5'-GATAAGGAATGCACGATGCTC-3'	5'-TCTCCGTTCTTCAGTGTAGCAA-3'
<i>Cxcl10</i>	5'-GTGTTGAGATCATTGCCACGA-3'	5'-GCGTGGCTTCACTCCAGTTAA-3'
<i>Cxcl11</i>	5'-GGCTGCGACAAAGTTGAAGTGA-3'	5'-TCCTGGCACAGAGTTCTTATTGGAG-3'
<i>Fasl</i>	5'-TTTCAGAGGGTGTACTGGGG-3'	5'-TGGTTGGAATGGGATTAGGA-3'
<i>Gapdh</i>	5'-GCCTGGAGAAACCTGCCA-3'	5'-CCCTCAGATGCCTGCTTCA-3'
<i>Gzmb</i>	5'-GCCTGGAGAAACCTGCCA-3'	5'-CCCTCAGATGCCTGCTTCA-3'
<i>Ifnb</i>	5'-CCAGTCCAAGAAAGGACGA-3'	5'-CGCCCTGTAGGTGAGGTTGAT-3'
<i>Ifng</i>	5'-GATATCTGGAGGAAGTGGCAAAG-3'	5'-AGAGATAATCTGGCTCTGCAGGAT-3'
<i>Prf1</i>	5'-CAAGTAGCCAATTTTGCAGC-3'	5'-GGCGAAAAGTGTACATGCGAC-3'
<i>Tbx21</i>	5'-CAACCAGCACCAGACAGAGA-3'	5'-CCACATCCACAAACATCCTG-3'



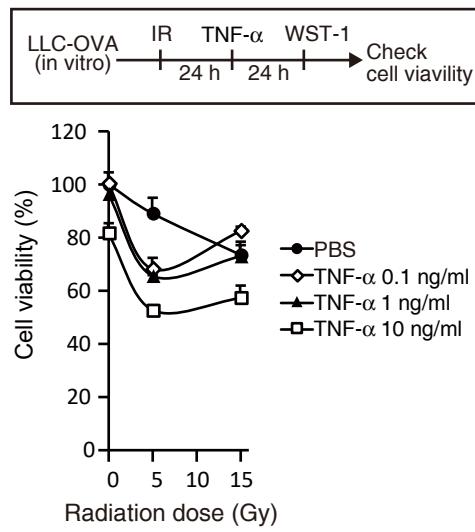
**Figure S1. Pre-treatment of polyI:C with IR was more efficient than post-treatment in tumor regression.** LLC-OVA-implanted WT B6 mice were intraperitoneally injected with polyI:C (100 µg/head) or performed 15 Gy of ionizing radiation (IR) when tumor volume reached around 0.4 cm<sup>3</sup>. After 24 h, polyI:C administration or IR was performed following the time table in this figure. *n* = 3-4 mice per group. Data are shown as average (SD) tumor size.



**Figure S2. IR damaged tumor cells and suppressed tumor growth independent of CTLs.** (A) Growth of LLC-OVA tumor on WT B6 mice with or without anti-CD8 $\beta$  antibody (Ab) treatment. Anti-CD8 $\beta$  Ab was injected into tumor-bearing mice 24-48 h before 15 Gy of ionizing radiation (IR). Additional Ab injection was performed on 5-6 days after irradiation. Similar two experiments were performed. Data are shown as average (SD) tumor size. n.s., not significant. In experiment #1,  $n = 3$  mice per group. In experiment #2,  $n = 3-5$  mice per group. (B) LLC-OVA-implanted mice were locally irradiated with 15 Gy of X-ray on tumor site. After 48 h, tumors were harvested, fixed with 10% neutralized buffered formalin at 4 °C for 3 h. Then, samples were equilibrated with 15% and 30% sucrose/PBS, mounted in O.C.T. compound (Sakura Finetek Japan), and frozen. Blocks were sliced and stained with the In Situ Cell Death Detection Kit, Fluorescein (Roche). Specimens were analyzed using BZ-9000 (KEYENCE). Scale bars, 50  $\mu$ m. The pictures are representative of two independent experiments.



**Figure S3. Frequency of intratumor CD11b<sup>+</sup> Gr-1<sup>+</sup> cells was different in pre- or post- polyI:C injection with radiation.** LLC-OVA-implanted WT B6 mice were treated with polyI:C and IR following the time table in this figure. Tumors were harvested on day 8 after the start of treatment and FACS analysis was performed. Plots are representative results of two with similar outcomes.



**Figure S4. TNF- $\alpha$  post-treatment decreased LLC-OVA cell viability combinatry with IR.** LLC-OVA cells were subjected to 15 Gy of IR and 24 h later, TNF- $\alpha$  was treated . After 24 h culture, cell viability was assessed by WST-1 assay.  $n = 3$ . Data represent the means (SD).

Yoshida et.al.