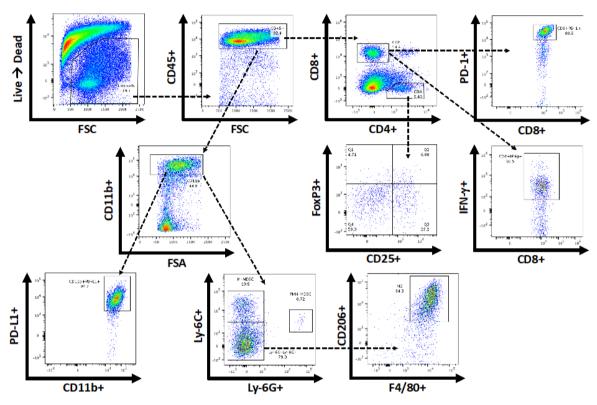
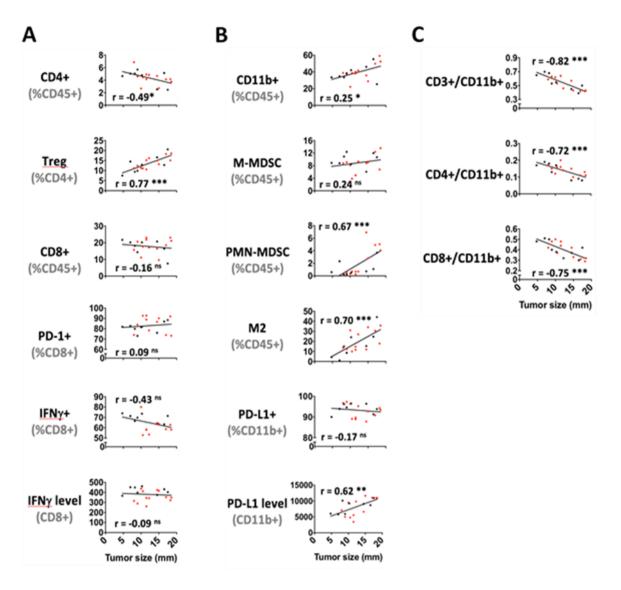
## Tumor Size Matters—Understanding Concomitant Tumor Immunity in the Context of Hypofractionated Radiotherapy with Immunotherapy

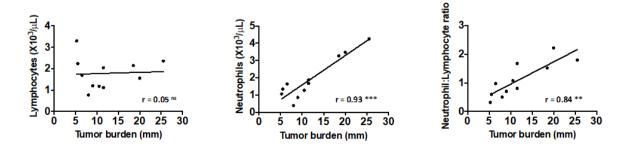
Jean Philippe Nesseler, Mi-Heon Lee, Christine Nguyen, Anusha Kalbasi, James W. Sayre, Tahmineh Romero, Philippe Nickers, William H. McBride and Dörthe Schaue



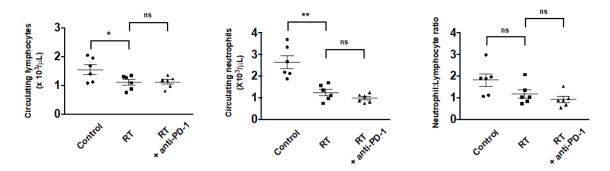
**Figure S1.** Multi-parametric flow cytometry gating strategies for lymphoid and myeloid cell populations.



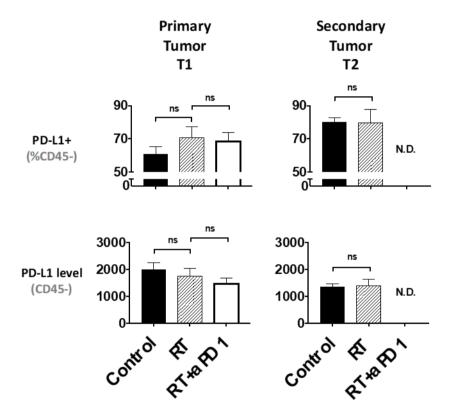
**Figure S2.** The immune cell profile in primary tumors (T1) depends on their tumor size. There is no obvious relation with the development of a secondary tumor T2. (**A**) Lymphoid subsets; (**B**) Myeloid subsets; (**C**) Ratio of lymphoid-to-myeloid subsets. (n = 20). Black dots are data from T1 tumors in mice with palpable T2 tumors, red dots represent mice in which T2 did not grow.



**Figure S3.** Linear regression analysis for circulating lymphocyte counts (left), neutrophil counts (middle), and the neutrophil/lymphocyte ratio (right) versus tumor burden. \*\* p < 0.01; \*\*\* p < 0.001; ns = not significant.



**Figure S4.** Impact of radiation treatment alone or in combination with PD-1 blockade on circulating lymphocyte (left) and neutrophil counts (middle), and on the ratio of neutrophils/lymphocytes (right) at d18 (n = 6 per treatment group). Data are mean +/- SEM. \* p < 0.05; \*\* p < 0.01; ns = not significant.



**Figure S5.** PD-L1 expression on tumor cells defined as CD45<sup>-</sup> in the primary tumor T1 and the secondary tumor T2 in response to radiation therapy (RT) with or without anti-PD-1 (RT + aPD1) (n = 6 per group). Data are mean +/- S.E.M. with ns not significant; ND: No Data.

Table S1. Phenotypic markers to define immune cells.

| Cell Type         | Markers                                |
|-------------------|--|
| CD8 T cell        | CD45+ CD8+ CD4-                        |
| CD4 T cell        | CD45+ CD8- CD4+                        |
| Regulatory T cell | CD45+ CD8- CD4+ CD25+ FoxP3+           |
| M-MDSC            | CD45+ CD11b+ Ly6G- Ly6C+               |
| PMN-MDSC          | CD45+ CD11b+ Ly6G+ Ly6C(int)           |
| M2 macrophages    | CD45+ CD11b+ Ly6G- Ly6C- F4/80+ CD206+ |



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