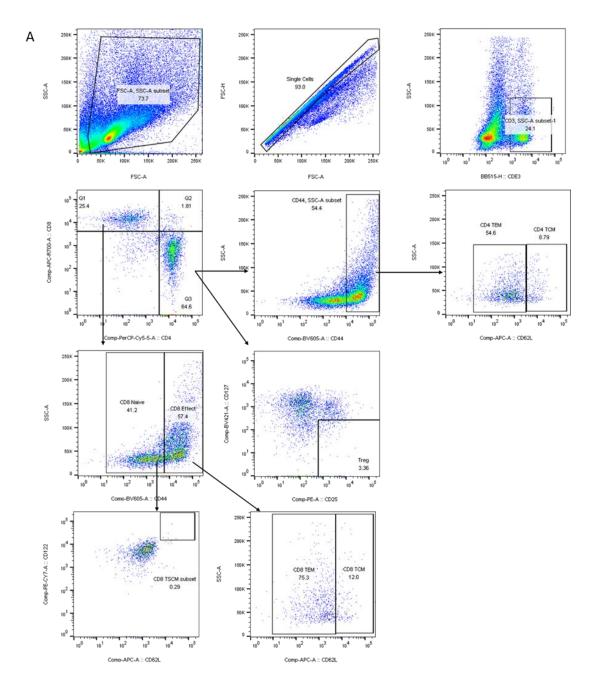
Supplemental information

An effective therapeutic regime for treatment of glioma using oncolytic vaccinia virus expressing IL-21 in combination with immune checkpoint inhibition

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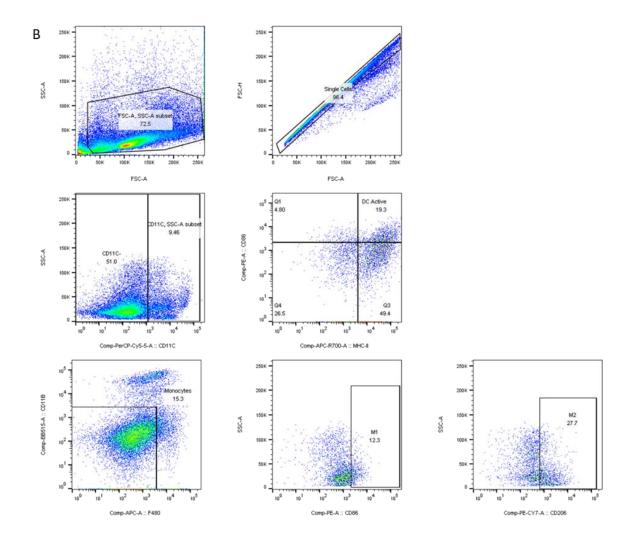


Figure S1 Cell flow cytometry gating. Murine glioma Gl261 subcutaneous tumors were established and treated with PBS, VV Δ TK-STC Δ N1L, VV Δ TK-STC Δ N1L-mIL21 or VV Δ TK-STC Δ N1L-mIL21+ α -PD1 on days 1, 3, 5 as described in the methods. On days 7, 14 and 21 post-treatment, different organs, peripheral blood and subcutaneous tumors of mice were collected for FACS analysis (3 mice/group/timepoint). A: T cell flow cytometry gating. B: Dendritic cell (DC) macrophage (MO) circle gate path diagram.

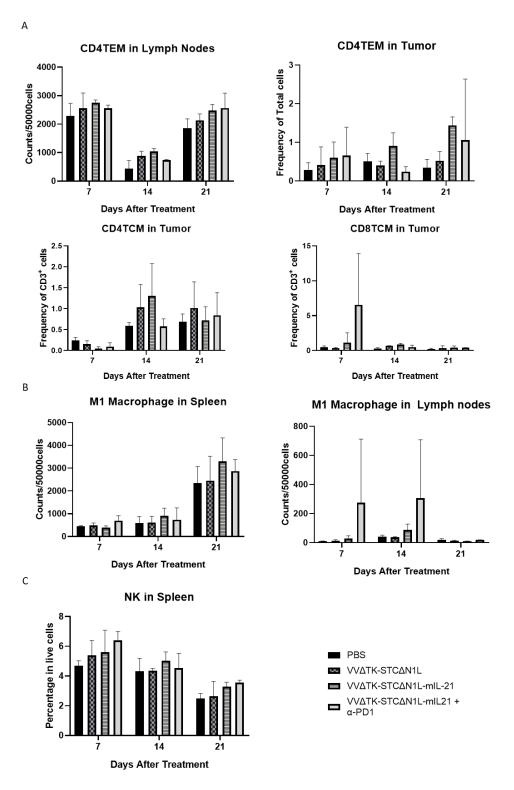


Figure S2 Immune cells subtypes of treatment groups. (A) CD4 TEM cells in the lymph nodes and tumors of mice. (N=3-4/group. Frequency (%) of total cells or CD3+ cells was used to evaluate CD4⁺TEM, CD4⁺TCM and CD8⁺TCM because of the low amount of the cell subset infiltrated in the tumor. (B)M1 macrophages quantified in the spleens and lymph nodules at the indicated timepoints after treatment. (C) NK cells were quantified in the spleen at the indicated timepoints after treatment. Significance was analysed using a two-way ANOVA, * P < 0.05; ** P < 0.01, ***P < 0.001)