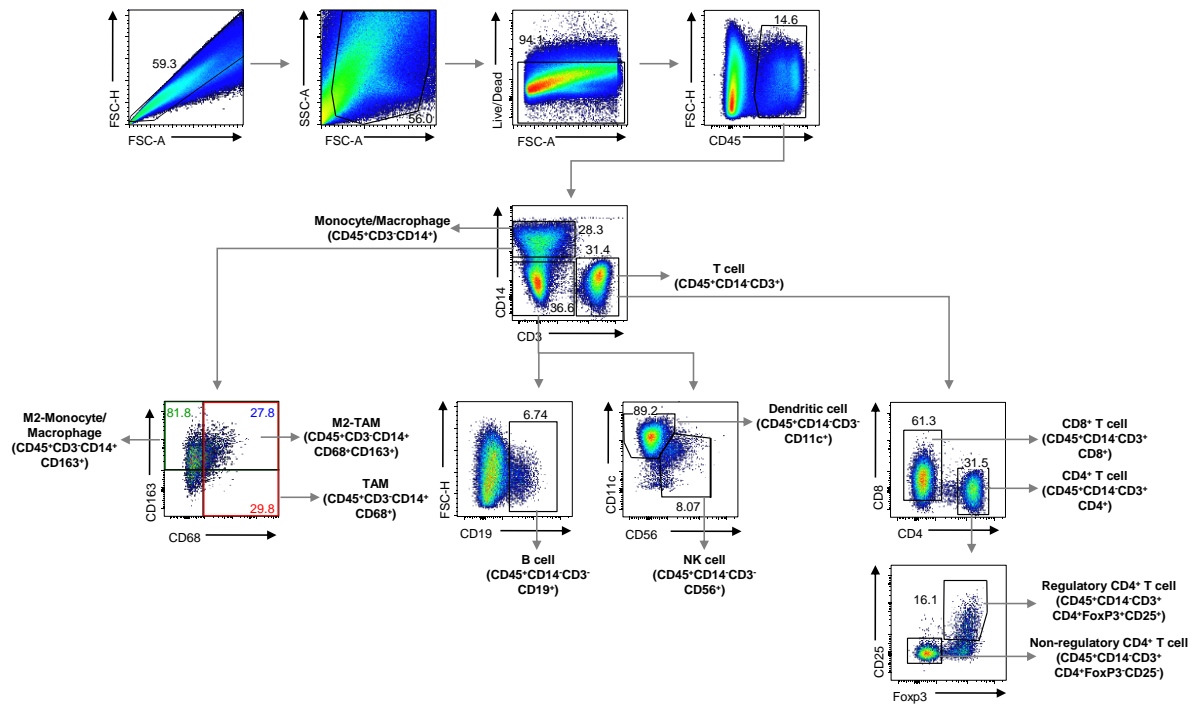


Absolute quantification of tumor-infiltrating immune cells in high-grade glioma identifies prognostic and radiomic values

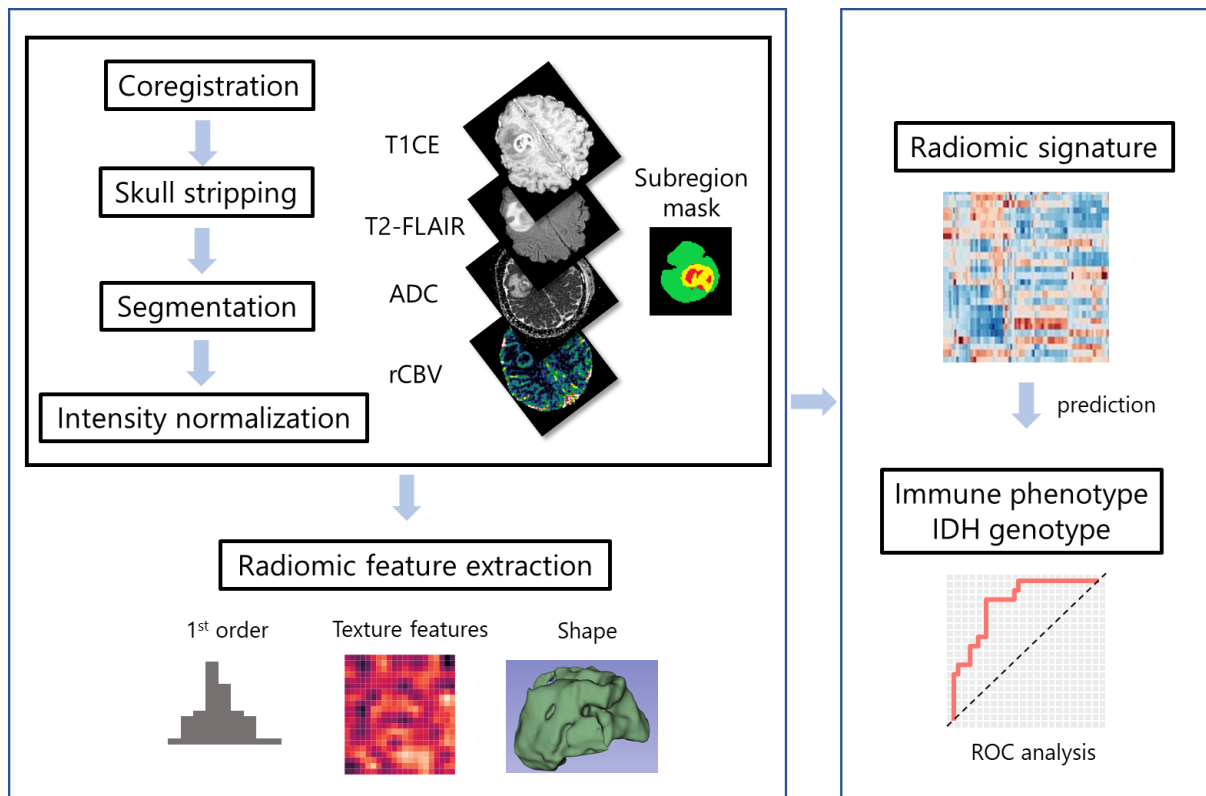
Supplementary Figures

Supplementary Figure 1. Gating strategy of flow cytometry for tumor-infiltrating immune cells in core area of high-grade gliomas.



Supplementary Figure 2. Processes for developing radiomic signatures of immune phenotypes: multimodal MRI images (T1CE, T2-FLAIR, ADC, and rCBV maps) were coregistered, isotropically resampled, skull-stripped, and subregional tumor masks were segmented using a convolutional neural network followed by manual correction. Radiomic features including first-order, gray-level non-uniformity, and shape features were extracted (107 features for each of 4 sequences), and radiomic signatures for immune phenotypes as well as IDH genotype were developed and validated.

Abbreviations: T1CE, T1-weighted contrast-enhanced; T2-FLAIR, T2-weighted fluid attenuated inversion recovery; ADC, apparent diffusion coefficient; IDH, isocitrate dehydrogenase; and relative cerebral blood volume, rCBV.



Supplementary Figure 3. A. The ratio of CD4⁺FoxP3⁺CD25⁺ cells (Treg cells) and of CD4⁺ cells (T4 cells) in CD45⁺ cells were plotted and samples those outside the 95% confidence interval were defined as Treg high and Treg low. **B.** Treg high and Treg low group showed no survival differences ($p=0.170$). **C.** The ratio of CD4⁺FoxP3⁺CD25⁺ cells (Treg cells) and of CD8⁺ cells (T8 cells) in CD45⁺ cells were plotted and samples those outside the 95% confidence interval were defined as Treg/Tc high and Treg/Tc low. **D.** Treg/Tc high and Treg/Tc low group showed no survival differences ($p=0.320$).

