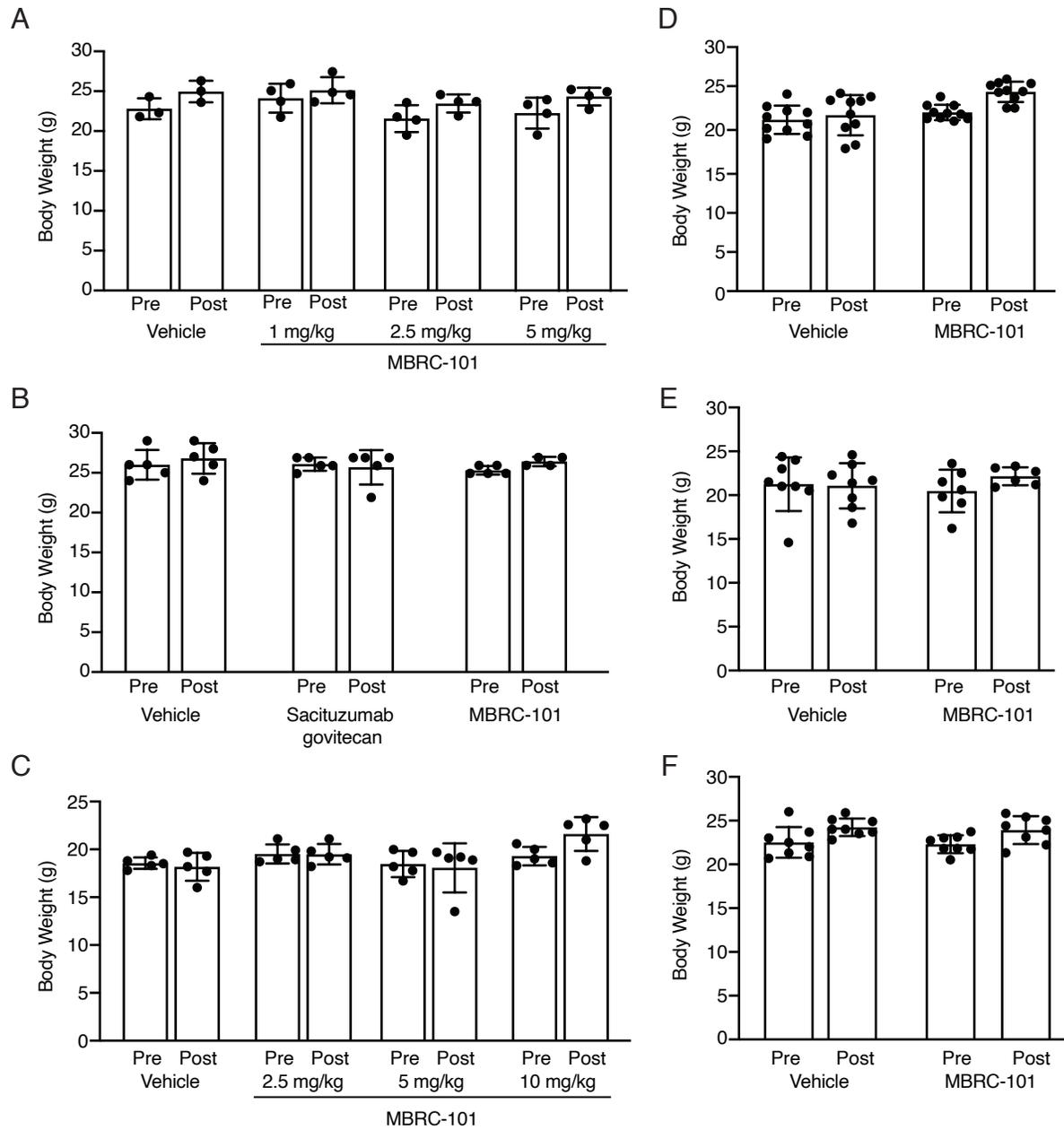
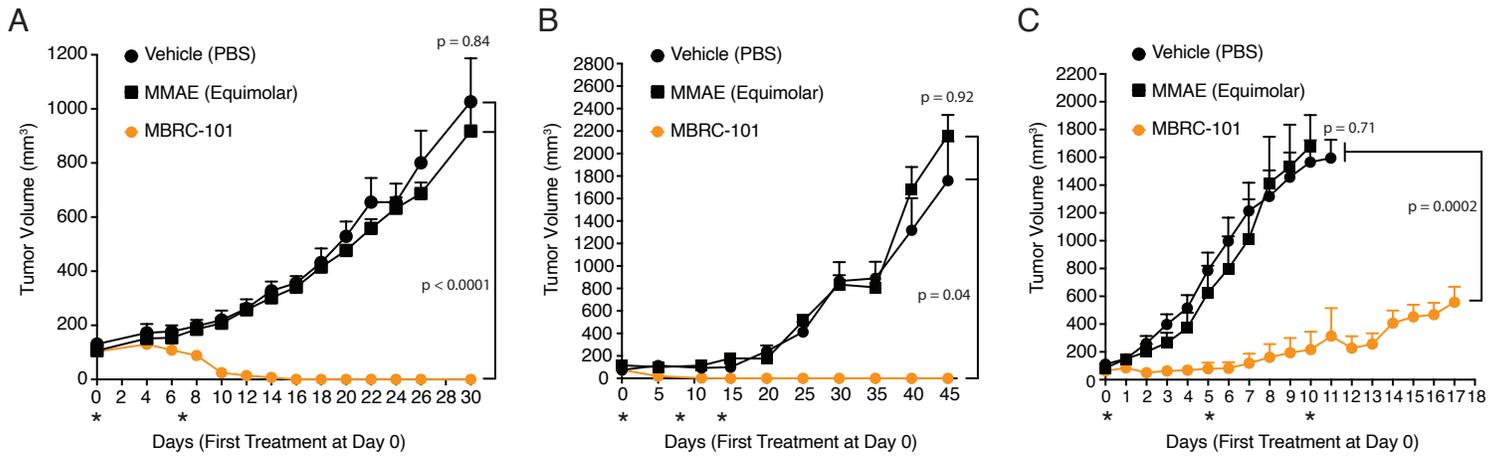


**Supplemental Figure 1. (A) Illustrative images of EphA5 expression in normal human and NHP tissues.** Both cytoplasmic and membrane staining were detected. Human urothelial mucosa and stomach: scale bar, 300  $\mu$ m. Human fallopian tube and NHP tissues: scale bar, 200  $\mu$ m. **(B)** Percentage of EphA5-expressing cells in normal tissues.



**Supplemental Figure 2. Body weight of mice pre- and post-treatment with MBRC-101 in various efficacy studies.** Treatment with saline was used as negative control. All data presented as means  $\pm$  SEM.



**Supplemental Figure 3. Anti-tumor activity of MBRC-101 in CDX models of lung cancer.** (A) A549 human lung adenocarcinoma cell-derived tumors. Ordinary one-way ANOVA coupled with Dunnett's multiple comparisons test. (B) H522 human lung adenocarcinoma cell-derived tumors. Ordinary one-way ANOVA coupled with Dunnett's multiple comparisons test. (C) H460 human large cell lung cancer cell-derived tumors. Ordinary one-way ANOVA coupled with Dunnett's multiple comparisons test. Treatments were given weekly for 2 or 3 weeks (\*). All data presented as means  $\pm$  SEM.