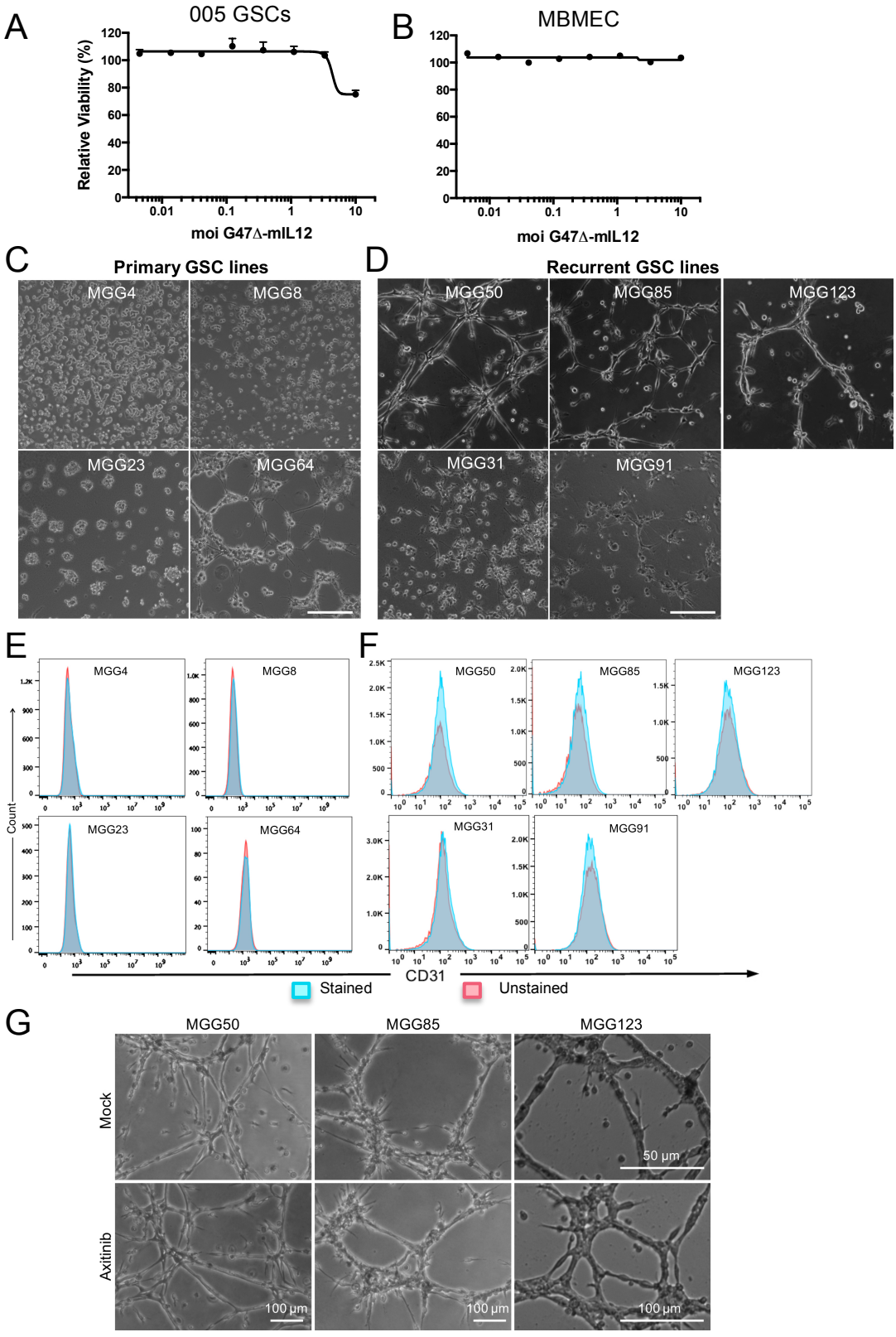
A
005 GSCs
Relative Viability (%)
moi G47Δ-mIL12
B
MBMEC
moi G47Δ-mIL12
C
Primary GSC lines
MGG4
MGG8
MGG23
MGG64
D
Recurrent GSC lines
MGG50
MGG85
MGG123
MGG31
MGG91
E
F
Count
CD31
Stained
Unstained
G
MGG50
MGG85
MGG123
Mock
Axitinib
50 μm
100 μm

Supplementary Figure 1. Cytotoxic effects of G47Δ-mIL12 *in vitro* in mouse cells and matrigel-based tube formation and CD31 expression in human GSCs. A, B. Dose response curves for G47Δ-mIL12 in 005 GSCs after 3 days (**A**) and in MBMEC after 5 days (**B**), as measured by MTS assay. Cells (90μL) were seeded in 96-well plates in their respective medias, containing heparin, followed by inoculation of 10μL virus (at indicated dose) (0h post-seeding for MBMEC or 24h post-seeding for 005 GSCs) diluted in heparin-rich media (MBMEC n=2; 005GSCs n=3, each experiment performed in triplicate). In the presence of heparin, only 20% cytotoxicity (005 GSCs) or no cytotoxicity (MBMEC) was observed at the highest viral dose (MOI=10). **C, D.** Matrigel-based tube formation of human GSCs. Human primary **(C)** and recurrent **(D)** GSCs (8-10 x 10^4) were resuspended in 1 ml endothelial cell growth media (EGM)-2 supplemented with the bullet kit (Lonza), plated into 24-well cell culture plates pre-coated with 250 μl of Matrigel (BD Bioscience) for 15-30 hours at 37°C, and tube formation was imaged at 20x. Microscopic images of representative wells are shown. Bar = 100 μm. **E, F.** CD31 expression in human GSCs. Human primary **(E)** and recurrent **(F)** GSCs were grown in endothelial cell growth media (EGM)-2 supplemented with the bullet kit (Lonza) for 3 days at 37°C, stained for CD31, and analyzed by flow cytometry. **G.** Matrigel-based tube formation of human GSCs. Human GSCs (10-12 x 10^4) were resuspended in 1 ml endothelial cell growth media (EGM)-2 supplemented with the bullet kit (Lonza) with or without axitinib (10 μM), plated into 24-well cell culture plates pre-coated with 250 μl of Matrigel (BD Bioscience) for 24 hours at 37°C, and tube formation was imaged. Microscopic images of representative wells are shown. The images for MGG123 were obtained at different magnifications (20x for mock and 10x for axitinib), compared to MGG50 and 85 (4x).