antibody after treatment with Control Ig or anti-SEMA4D Ab 67. FIG. 3B shows density of CD20+ B cells as determined by % tumor area stained with anti-CD20 antibody after treatment with Control Ig or anti-SEMA4D Ab 67.

[0017] FIGURES 4A-4D: Measurement of macrophage and CD8+ T cell distribution at leading edge of tumor in Colon26 grafted mice. FIG. 4A shows images of representative Colon26 tumors from mice grafted 27 days earlier and treated with either Control Ig or anti-SEMA4D Ab 67 as described in FIG 1. FIG. 4B shows measurement of M1 type macrophage density at leading edge of tumor, defined as a 300 pixel wide region (250 micron) from the edge of the tumor, as determined by % pixel area stained with anti-F4/80 antibody. FIG. 4C shows measurement of M2 type macrophage density at leading edge of tumor as determined by % pixel area stained with anti-CD206 antibody. FIG. 4D shows measurement of CD8+T cell density at leading edge of tumor, as determined by % pixel area stained with cytotoxic T cell anti-CD8 antibody.

[0018] FIGURES 5A-5E: Measurement of tumor volume in mice implanted with syngeneic Colon26 tumor cells. FIG. 5A shows measurement of Colon26 tumor volume in Balb/c mice treated with either control Mouse IgG1/2B8 or anti-SEMA4D/MAb 67-2 (50 mg/kg, IP, weekly), with or without anti-CTLA4/MAb UC10-4F10-11 (100 µg on day 8 and 50 µg on days 11 and 14 post tumor inoculation), and with anti-PD1/RMP1-14 (100 µg on day 3, twice weekly) in combination with anti-CTLA4/MAb UC10-4F10-11. FIG. 5B shows survival time of Balb/c mice treated with either control Mouse IgG1/2B8 or anti-SEMA4D/MAb 67-2, with or without anti-CTLA4/MAb UC10-4F10-11, and with anti-PD1/RMP1-14 (100 µg on day 3, twice weekly) in combination with anti-CTLA4/MAb UC10-4F10-11. FIG. 5C shows the frequency of tumor regression in Balb/c mice treated with either control Mouse IgG1/2B8 or anti-SEMA4D/MAb 67-2, with or without anti-CTLA4/MAb UC10-4F10-11, and with anti-PD1/RMP1-14 (100 µg on day 3, twice weekly) in combination with anti-CTLA4/MAb UC10-4F10-11 (p values, *0.05 and **0.01). FIG. 5D shows measurements of pro-inflammatory cytokines IFNγ in the tumor infiltrating lymphocytes of mice treated with the combination of anti-SEMA4D/MAb 67-2 and anti-CTLA4/MAb UC10-4F10-11 compared to either control Mouse IgG1/2B8 or monotherapy (either anti-SEMA4D/MAb 67-2 or anti-CTLA4/MAb UC10-4F10-11). FIG. 5E shows frequency of peptide-specific IFNγ secreting responders among tumor infiltrating lymphocytes recovered from spleen of mice treated with the combination of anti-SEMA4D/MAb 67-2 and anti-CTLA4/MAb UC10-4F10-11 compared to either control Mouse IgG1/2B8 or monotherapy (either anti-SEMA4D/MAb 67-2 or anti-CTLA4/MAb UC10-4F10-11).