**Supplemental Table 2A. Comparison of the number of splenocytes and**

**splenic populations among the treatment groups at day 35 post-tumor implantation.**

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| **A**  Day 35 |
| Number (x106) | Weight Gain | Weight Maintenance | P-value |
| SED+AL (n=18) | PA+AL(n=20) | SED+ER(n=15) | PA+ER(n=20) |
| Splenocytes |  364.0 ± 220.3 |  358.7 ± 167.5 | 210.3 ± 168.0  |  184.2 ± 125.5\*† | 0.002 |
| B cells (CD19+) |  179.8 ± 102.8 | 172.5 ± 85.1 | 102.7 ± 84.9† |  85.0 ± 60.8\*† | 0.007 |
| Total T cells (CD3+) |  56.5 ± 33.5 |  60.4 ± 25.0 |  40.0 ± 23.1 | 40.7 ± 25.4 | 0.046 |
| Helper T cells (CD3+CD4+) |  33.5 ± 19.7 |  41.1 ± 18.2 |  24.5 ± 11.5† | 27.6 ± 18.0 | 0.028 |
| Cytolytic T cells (CD3+CD8+) | 14.6 ± 9.5 | 17.7 ± 8.0 |  13.2 ± 12.3 | 10.1 ± 5.4† | 0.034 |
| NK cells (NK1.1+) |  20.5 ± 13.2 |  20.1 ± 12.9 |  14.9 ± 15.9 | 11.5 ± 9.6† | 0.013 |
| Dendritic Cells (I-Ad+CD11c+) |  9.6 ± 6.2 |  8.2 ± 4.2 |  6.5 ± 6.0  |  6.0 ± 5.5 | 0.034 |
| Macrophages (I-Ad+CD11b+) |  21.7 ± 15.3 |  23.3 ± 13.5 |  14.2 ± 10.1 |  15.9 ± 11.8 | 0.093 |
| Macrophages (F4/80+) |  31.6 ± 24.7 |  32.8 ± 17.7 |  21.0 ± 28.9 |  20.3 ± 21.7 | 0.026 |

**Supplemental Table 2B. Comparison of the number of splenocytes and**

**splenic populations among the treatment groups when tumor volumes are equal in size.**

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| **B** Tumor volume 0.05-0.20 cm3 |
| Number (x106) | Weight Gain | Weight Maintenance | P-value |
| SED+AL (n=7) | PA+AL(n=7) | SED+ER(n=7) | PA+ER(n=7) |
| Splenocytes | 173.4 ± 44.4 |  207.4 ± 113.3 | 114.3 ± 54.7 | 125.0 ± 58.2 | 0.068 |
| B cells (CD19+) | 107.6 ± 27.0 |  93.4 ± 59.7 |  49.0 ± 18.2\* |  78.6 ± 46.8 | 0.027 |
| Total T cells (CD3+) |  47.1 ± 11.0 |  39.5 ± 24.9 | 23.2 ± 8.2 |  33.0 ± 13.4 | 0.054 |
| Helper T cells (CD3+CD4+) | 21.4 ± 4.5 |  29.7 ± 18.7 | 15.0 ± 4.6 | 16.0 ± 6.4 | 0.052 |
| Cytolytic T cells (CD3+CD8+) | 13.7 ± 4.4 | 13.5 ± 6.4 |  7.9 ± 2.9 |  8.9 ± 3.0 | 0.038 |
| NK cells (NK1.1+) | 18.2 ± 8.9 | 13.4 ± 5.5 |  8.4 ± 4.3 |  16.0 ± 14.7 | 0.095 |
| Dendritic Cells (I-Ad+CD11c+) |  8.0 ± 3.6 |  5.3 ± 0.9 |  3.8 ± 2.4 |  6.5 ± 3.8 | 0.073 |
| Macrophages (I-Ad+CD11b+) |  21.7 ± 11.5 | 13.4 ± 4.7 | 10.3 ± 6.5 | 19.0 ± 9.5 | 0.073 |
| Macrophages (F4/80+) |  31.2 ± 11.8 |  27.3 ± 13.1 |  15.2 ± 13.6 |  27.8 ± 13.4 | 0.137 |

 \* designates significant difference from SED+AL group.

 † designates significant difference from PA+AL group.