**Supplemental Digital Content 1.** Monoclonal antibodies and isotypes used on CD4+ T and CD8+ T cells for activation and exhaustion markers

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| Monoclonal antibody | Fluorochrome | Clone | Manufacturer |
| CD3 | APC-Cy7 | SK7 | BD |
| CD4 | V500 | RP4-T4 | BD |
| CD8 | APC | RPA-T8 | BD |
| CD38 | PE | HB7 | BD |
| HLA-DR | PerCP | L243 | BD |
| PD-1 | PE-Cy7 | EH 12.1 | BD |
| CD45RA | FITC | HI100 | BD |
| CCR7 | PECF594 | 150503 | BD |
| Ms IgG1, k \* | PE | X40 | BD |
| Ms IgG1, k \* | PerCP | X40 | BD |
| Mouse IgG1, k \* | PE-Cy7 | MOPC-21 | BD |
| Ms IgG2, a \* | PECF594 | 150503 | BD |
| Ms IgG1, k \* | FITC | MOPC-21 | BD |
| \*Isotypes | | | |