**Table S1. Antibody sources and work concentration.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Antibody** | **Product #** | **Category** | **Clone #** | **Dilution** | **Source** |
| PD-1 | ab52587 | Mouse monoclonal | NAT105 | 1:50 | Abcam, USA  |
| PD-L1 | ab228462 | Rabbit monoclonal | SP142 | 1:400 | Abcam, USA |
| ATM | ab32420 | Rabbit monoclonal | Y170 | 1:100 | Abcam, USA |
| FOXP3CD8STAT1STAT3c-src(phospho Y419) | ab191416ab101500ab109320ab68153ab4816 | Rabbit monoclonalRabbit monoclonalRabbit monoclonalRabbit monoclonalRabbit polyclonal | EPR15038-69SP16EPR4407EPR787Y- | 1:2501:1001:2501:2001:100 | Abcam, USA Abcam, USAAbcam, USAAbcam, USAAbcam, USA |