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| **S2 Table: Flow cytometry studies** |
| **Marker** | **Color / Format** | **Ex / Em(nm)** | **Antibody cat#** | **Source** |
| **General exclusion markers** |
| CD3 epsilon | Alexa Fluor 488  | 488 / 530/30 | Hamster α m / IgG (500A2) | Thermo Fisher (HM3420) |
| CD45R/B220(B cell) | DyLight 680  | 640 / 730/44 | Rat α m / IgG2a (RM0063-9F14) | Novus (NBP2-12168FR) |
| CD19 (B cell) | FITC  | 490 / 530/30 | Rat α m / IgG2a, κ (eBio1D3)  | Thermo Fisher (11-0193-82) |
| Ly-6G (Granulocytes) | Brilliant Violet650  | 405 / 650/30 | Rat α m / IgG2a, κ (1A8)  | BD Biosc (740554) |
| Ly6G (Granulocytes) | V450  | 405 / 450/50 | Rat α m / IgG2a, κ (1A8) | BD Biosc (560603) |
| **Antigen presentation and processing** |  |  |  |
| CD11b (Mϕs) | Brilliant violet 605  | 405 / 610/20 | Rat α m / IgG2a κ (M1/70) | BD Biosc (563015) |
| CD11c (DCs) | Brilliant Violet 785  | 405 / 780/60 | Hamster α m / IgG (N418) | Biolegend (117336) |
| CD205 (Ag uptake) | PerCP e-fluor  | 488 / 710/50 | Rat α m / IgG2a, κ (205yekta)  | Thermo Fisher (46-2051-80) |
| CD209 (Maturation) | FITC  | 490 / 530/30 | Rat α m / IgG2a, κ (LWC06) | Thermo Fisher (1-2092-82)  |
| MHC I (Ag expression) | DyLight 350  | 355 / 450/50 | Mouse α m / IgG2a κ (14-4-4S) | Novus (NBPI-43736UV) |
| MHC II (Ag expression) | PE | 561 / 582/14 | Mouse α m / IgG1 κ (OX-6) | BD Biosc (554929) |
| CD80 (Co-stimulatory) | APC  | 594 / 670/30 | Rat α m / IgG2a κ (1G10)  | Thermo Fisher (A14724) |
| CD 206 (Class II) | APC5  | 594 / 670/30 | Rat α m / IgG2b (MR6F3)  | Thermo Fisher (17-2061-82) |
| CD200 (Class II) | PE  | 561 / 582/14 | Rat α m / IgG2a κ (OX-90)  | Thermo Fisher (12-5200-82) |
| TNF-α (Class I) | FITC  | 490 / 530/30 | Rat α m / IgG1κ (MP6-XT22) | Thermo Fisher (11-7321-82) |
| IL-1β (Class I) | PE-Cy7  | 496 / 785 | Rat α m / IgG1 κ (NJTEN3) | Thermo Fisher (25-7114-80) |
| **T cell activation and function** |  |  |  |
| CD4 (T cell)  | V450  | 405 / 450/50 | Rat α m / IgG2a κ (RM4-5) | BD Biosc (560468) |
| CD8 (T cell) | V500  | 405 / 525/50 | Rat α m / IgG2a κ (53-6.7) | BD Biosc (560776) |
| TNF-α cytokine | PerCP-Cy5.5  | 488 710/50 | Rat α m / IgG1 κ (MP6-XT22) | BD Biosc (560659) |
| IFN-γ cytokine | APC  | 594 / 670/30  | Rat α m / IgG1 κ (XMG1.2) | Thermo Fisher (17-7311-82) |
| Perforin (Cytotoxicity) | FITC  | 490 / 530/30 | Rat α m / IgG2a κ (eBioOMAK) | ThermoFisher (11-9392-82) |
| CD107a (Degranulation) | PE  | 561 / 582/14 | Rat α m / IgG2a κ (ID4B)  | BD Biosc (558661) |
| CD11a (LFA-1) | PE-Cy7  | 496 / 785 | Rat α m / IgG2a κ (2D7) | BD Biosc (558191) |
| CD69 (T cell activation) | PE  | 561 / 582/14 | Hamster α mouse (HI.2F3)  | BD Biosc (553237) |
| CD62L (Memory) | PerCP-Cy5.5  | 482 / 710/50 |  Rat α m/ IgG2a κ (MEL-14) | Thermo Fisher (45-0621-82) |
| CD44 (Memory) |  APC  | 594 / 670/30 | Rat α m / IgG2b κ (IM7)  | Thermo Fisher Sc (17-0441-82) |
| CD25 (Treg activation) | PE  | 561 / 582/14 | Rat α m / IgG1 λ (PC61.5) | Thermo Fisher (25-0251-82) |
| FoxP3 (Treg activation) | PerCP-Cy5.5 | 482 / 710/50 | Rat α m / IgG2a κ (R16-715) | BD Biosc (563902) |
| CD95 (Cell death receptor)  | PE-Cy7 | 496 / 785  | Hamster α m / IgG2.λ2 (Jo-2)  | BD Biosc (557653) |
| CD95L/CD178 (cell death ligand) | PE | 561 / 582/14 | Hamster α m / IgG1 κ (MFL3) | BD Biosc (555293) |

Fluorescence conjugated antibodies that were used to evaluate the effect of vaccine and challenge infection with *T. cruzi* on the splenic and lymph node immune responses in mice are listed.