

General Panel

Antibody	Source	Identifier	Dilution
PE anti-human TCR γ/δ Antibody, clone B1	Biolegend	Cat# 331209; RRID: AB_1089219	1/25
PE/Fire™ 700 anti-human CD25 Antibody, clone M-A251	Biolegend	Cat# 356145; RRID: AB_2876678	1/50
Brilliant Violet 421™ anti-human CD197 (CCR7) Antibody, clone G043H7	Biolegend	Cat# 353207; RRID: AB_10915137	1/50
Pacific Blue™ anti-human CD20 Antibody, clone 2H7	Biolegend	Cat# 302319; RRID: AB_493650	1/100
Brilliant Violet 510™ anti-human IgM Antibody, clone MHM-88	Biolegend	Cat# 314521; RRID: AB_2561513	1/100
Brilliant Violet 570™ anti-human CD3 Antibody, clone UCHT1	Biolegend	Cat# 300435; RRID: AB_10898117	1/100
Brilliant Violet 605™ anti-human CD16 Antibody, clone 3G8	Biolegend	Cat# 302039; RRID: AB_2561354	1/200
Brilliant Violet 650™ anti-human CD28 Antibody, clone CD28.2	Biolegend	Cat# 302945; RRID: AB_2616854	1/100
Brilliant Violet 711™ anti-human CD38 Antibody, clone HIT1	Biolegend	Cat# 303527; RRID: AB_11218990	1/50
Brilliant Violet 750™ anti-human CD56 (NCAM) Antibody, clone 5.1H11	Biolegend	Cat# 362555; RRID: AB_2734396	1/50
Brilliant Violet 785™ anti-human CD279 (PD-1) Antibody, clone EH12.2H7	Biolegend	Cat# 329929; RRID: AB_11218984	1/50
Alexa Fluor® 488 anti-human CD45RA Antibody, clone HI100	Biolegend	Cat# 304114; RRID: AB_528816	1/100
Spark Blue™ 550 anti-human CD14 Antibody, clone 63D3	Biolegend	Cat# 367147; RRID: AB_2820021	1/50
Spark Blue™ 574 anti-human CD4, clone SK3	Biolegend	Cat# 344679; RRID: AB_2910397	1/150
PerCP/Cyanine5.5 anti-human CD8 Antibody, clone SK1	Biolegend	Cat# 344709; RRID: AB_2044009	1/50
Spark YG™ 581 anti-human IgD Antibody, clone W18340F	Biolegend	Cat# 307805; RRID: AB_2890743	1/50
PE/Dazzle™ 594 anti-human CD141 (Thrombomodulin) Antibody, clone M80	Biolegend	Cat# 344119; RRID: AB_2687143	1/50
PE/Cyanine7 anti-human CD11c Antibody, clone 3.9	Biolegend	Cat# 301607; RRID: AB_389350	1/100
PE/Fire™ 810 anti-human HLA-DR Antibody, clone L243	Biolegend	Cat# 307683; RRID: AB_2904336	1/150
APC anti-human CD127 (IL-7R α) Antibody, clone A019D5	Biolegend	Cat# 351315; RRID: AB_10900814	1/150
Alexa Fluor® 647 anti-human CD1c Antibody, clone L161	Biolegend	Cat# 331510; RRID: AB_1186032	1/150
Spark NIR™ 685 anti-human CD19 Antibody, clone HIB19	Biolegend	Cat# 302269; RRID: AB_2860769	1/100
Alexa Fluor® 700 anti-human CD123 Antibody, clone 6H6	Biolegend	Cat# 306039; RRID: AB_2750160	1/150
APC/Fire™ 750 anti-human CD45 Antibody, clone 2D1	Biolegend	Cat# 368517; RRID: AB_2616704	1/200
APC/Fire™ 810 anti-human CD27 Antibody, clone 0323	Biolegend	Cat# 302863; RRID: AB_2894450	1/100
Spark YG™ 593 anti-human CD95 (Fas) Antibody, clone DX2	Biolegend	Cat# 305667; RRID: AB_3083296	1/100
Biotin anti-human CD21 Antibody, clone Bu32	Biolegend	Cat# 354913; RRID: AB_2564560	1/50
T-bet Monoclonal Antibody (eBio4B10 (4B10)), PE-Cyanine5, eBioscience™, clone eBio4B10 (4B10)	Invitrogen	Cat# 15-5825-82; RRID: AB_2815071	1/50

T cell Panel

Antibody	Source	Identifier	Dilution
Biotin anti-human TCR γ/δ Antibody, clone B1	Biolegend	Cat# 331206; RRID: AB_1089216	1/50
Spark NIR™ 685 anti-human CD25, clone M-A251	Biolegend	Cat# 356151; RRID: AB_2888804	1/50
Spark Blue™ 574 anti-human CD4, clone SK3	Biolegend	Cat# 344679; RRID: AB_2910397	1/150
Brilliant Violet 510™ anti-human CD3, clone SK7	Biolegend	Cat# 344827; RRID: AB_2563703	1/200
APC/Cyanine7 anti-human CD8, clone SK1	Biolegend	Cat# 344713; RRID: AB_2044005	1/200
PerCP/Cyanine5.5 anti-human CD57, clone HNK-1	Biolegend	Cat# 359621; RRID: AB_2565929	1/50
Brilliant Violet 785™ anti-human CD279 (PD-1), clone EH12.2H7	Biolegend	Cat# 329929; RRID: AB_11218984	1/50
Spark YG™ 593 anti-human CD95 (Fas), clone DX2	Biolegend	Cat# 305667; RRID: AB_3083296	1/100
PerCP/Fire™ 806 anti-human CD39, clone A1	Biolegend	Cat# 328249; RRID: AB_3083311	1/100
PE/Cyanine5 anti-human CD127 (IL-7R α), clone A019D5	Biolegend	Cat# 351323; RRID: AB_10917390	1/200
Spark UV™ 387 anti-human CD27, clone 0323	Biolegend	Cat# 302865; RRID: AB_2922533	1/50
APC/Fire™ 810 anti-human CD38, clone HB-7	Biolegend	Cat# 356643; RRID: AB_2860936	1/200
Brilliant Violet 605™ anti-human CD45RO, clone UCHL1	Biolegend	Cat# 304237; RRID: AB_2562143	1/50
Brilliant Violet 570™ anti-human CD56 (NCAM), clone 5.1H11	Biolegend	Cat# 362539; RRID: AB_2565917	1/50
PE/Fire™ 810 anti-human HLA-DR, L243	Biolegend	Cat# 307683; RRID: AB_2904336	1/100
Alexa Fluor® 700 anti-human CD185 (CXCR5), clone J252D4	Biolegend	Cat# 356915; RRID: AB_2562289	1/50
Brilliant Violet 711™ anti-human CD196 (CCR6), clone G034E3	Biolegend	Cat# 353435; RRID: AB_2629607	1/50
Brilliant Violet 650™ anti-human CD28, clone CD28.2	Biolegend	Cat# 302945; RRID: AB_2616854	1/100
PE/Dazzle™ 594 anti-human TIGIT (VSTM3), clone A15153G	Biolegend	Cat# 372715; RRID: AB_2632930	1/50
PerCP anti-human CD5, clone UCHT2	Biolegend	Cat# 300617; RRID: AB_893378	1/400
Biotin anti-human CD19, clone HIB19	Biolegend	Cat# 302204; RRID: AB_314233	1/100
Biotin anti-human CD14, clone 63D3	Biolegend	Cat# 367105; RRID: AB_2566617	1/100
Biotin anti-human TCR Va7.2, clone 3C10	Biolegend	Cat# 351724; RRID: AB_2566057	1/100
Pacific Blue™ anti-human/mouse Granzyme B Recombinant, clone QA16A02	Biolegend	Cat# 372217; RRID: AB_2728384	1/100
BD OptiBuild™ BUV563 Mouse Anti-Human CD195, clone 2D7/CCR5	BD	Cat# 741401; RRID: AB_2870893	1/50
BD OptiBuild™ BV480 Mouse Anti-Human CD183 (CXCR3), clone 1C6/CXCR3	BD	Cat# 746283; RRID: AB_2743613	1/25
BD OptiBuild™ BUV805 Mouse Anti-Human CD194, clone 1G1	BD	Cat# 752524; RRID: AB_2917514	1/50
BD Pharmingen™ APC Mouse Anti-Human CCR10, clone 1B5	BD	Cat# 564771; RRID: AB_2738943	1/50
BD Horizon™ BUV395 Mouse Anti-Human CD45RA, clone 5H9	BD	Cat# 569489; RRID: AB_3685102	1/100
BD OptiBuild™ BUV737 Rat Anti-Human CCR7 (CD197), clone 3D12	BD	Cat# 741786; RRID: AB_2871135	1/50
Granzyme K Monoclonal Antibody (G3H69), PerCP-eFluor™ 710 eBioscience™, clone G3H69	Invitrogen	Cat# 46-8897-42; RRID: AB_2573854	1/25
KLRG1 Monoclonal Antibody (13F12F2), PE-Cyanine7 eBioscience™, clone 13F12F2	Invitrogen	Cat# 25-9488-41; RRID: AB_2573546	1/100
Human CXCR6 Alexa Fluor® 594-conjugated Antibody, clone 1010910	R&D	Cat# FAB6991T	1/50

Supplementary Table 3