cell type	markers
B cells	MS4A1, CD79A, CD83, CD79B, CD37, CD19
B cells proliferative	CD79B, MS4A1, CD79A, STMN1, KIAA0101, TUBA1B, CD19
Plasma B cells	IGKC, IGHG1, IGHM, TNFRSF17, SDC1, CD38
T cells naive	IL7R, TCF7, CCR7, LEF1, SELL
T cells regulatory	FOXP3, TNFRSF18, IL2RA, TIGIT, CTLA4, IKZF2
T helper cells	CXCL13, TNFRSF4, TNFRSF18, BATF, TIGIT, SOX4, TNFRSF25, CTLA4, RORA, XCL1, TNFSF8, PPIA, STAT5A, TOX, PDCD1
CD4 effector memory	ANXA1, SRGN, LMNA, TNFSF8, IL7R, CXCR4, VPS37B, GZMK, STAT4, TGFB1, XCL1, XCL2, CCR7, CRTAM
T cells proliferative	STMN1, MKI67, CDK1
CD4 recently activated	CCL4, IFITM1, CD69, PRF1, BCL3, IL7R, IFITM3, TCF7, CD81, CXCR4, GZMK, GZMM, IFITM2
CD4 naïve-memory	IL7R, TCF7, CCL5, IFITM1
CD4 transitional memory	CXCL13, TNFRSF4, TIGIT, IL6ST, PASK, KLRB1, CD40LG, TOX, LEF1, ICOS, CD28, TOX2, CCR7, CD247, RORA, PDCD1
CD8 pre-exhausted	ISG15, IFI44L, IFI6, IFIT3, IFIT1, IFI44, IFI35, IRF7, IFIT2, LAG3, IFITM1, IFI16, IFI27, IFNG, GZMB, GZMK, PRF1, HAVCR2, IFIH1, GZMA, IRF9, CXCL13, GZMH, IFIT5, PDCD1
CD8 cytotoxic	CCL5, GZMA, GZMK, NKG7, GNLY, GZMH, GZMM, PRF1, CXCR3, GZMB, CCL4, IFNG
CD8 effector memory	GZMM, IFITM1, GZMK, IFNG, CCL5
CD8 terminally exhausted	CXCL13, LAG3, GZMB, CCL5, NKG7, IFNG, GZMA, HAVCR2, GNLY, PDCD1, TIGIT, TNFRSF9, ENTPD1, CTLA4, PRF1, TOX, GZMH, GZMK
NK	PRF1, GNLY, KLRD1, KLRF1, GZMH, GZMB, KLRB1, GZMA, GZMM, CD160, CD244, KLRC1, NCR1
Macrophages SPP1	SPP1, APOE, SEPP1, MMP9, CD163
TAMs C1QC	C1QB, APOE, C1QA, C1QC, APOC1, SEPP1, SPP1, CD163
TAMs proinflamatory	CXCL8, IL1B, S100A9, S100A8, CCL2, IL8, CD68, IL6, IL1A
Macro. and mono. prolif	C1QB, C1QC, SPP1, C1QA, TUBA1B, STMN1, APOE,

	APOC1, MKI67, CD14, KIAA0101, TOP2A, CD68, SPI1, BIRC5, CSF1R, PCNA, FCER1A, IL1B, CD1C
Monocytes	S100A8, S100A9, FCN1, VCAN, AIF1, SPI1, CD14, APOBEC3A, CSF1R, ASAH1
cDC	FSCN1, HLA.DRA, HLA.DRB1, SPI1, CLEC9A, XCR1, ITGAX
pDC	TCF4, IRF8, IRF4, BCL11A, SPIB, CLEC4C, RUNX2
mDC	HLA.DRA, HLA.DRB1, SPI1, CD68, CD83, ITGAX, CD1D
Mast cells	TPSB2, TPSAB1, CPA3, GATA2, KIT, MS4A2

Supplementary Table 2 | Most relevant markers for the annotated cell types (level 1, 25 clusters)