

Table S2. DEGs of single cell clusters.

	rank	B_act_n	B_naive_n	CD4_CXCL13	CD4_Tcm_n	CD4_Treg_n	CD4_act_n	CD8_Cyto_n	CD8_HSP_n	CD8_Teff_n	CD8_Tem_n	CD8_Tex_n	Endo_n	Epi_n	cDC1_n	cDC2_n	pDC_n	
	1	CD83	CD74	CXCL13	IL7R	LTB	RGS1	GZMA	HSPA6	GZMA	SYNE2	CCL4	TM4SF1	ELF3	HLA-DPB1	HLA-DRA	GZMB	
	2	TSC22D3	MS4A1	RBPJ	TNFAIP3	TNFRSF1B	TNFAIP3	CCL5	KLRB1	RGS1	RBM25	GZMA	PECAM1	KRT19	CPVL	HLA-DPB1	HLA-DRB1	
	3	NR4A2	LTB	FKBP5	ANXA1	TNFRSF18	SPOCK2	CCL4	CCL5	CCL5	NKTR	GZMK	GNG11	PIGR	HLA-DRB1	HLA-DRB1	HLA-DRA	
	4	HLA-DQB1	IGHM	MAF	LTB	SAT1	DUSP4	NKG7	MT-RNR1	KLRC4-KLRK	PRRC2C	NKG7	CLDN5	PTMA	HLA-DRA	TYMP	ALOX5AP	
	5	CD69	HLA-DRA	RGS1	CD69	BATF	NAMPT	IFNG	RGS2	KLRK1	UTRN	CCL4L2	VWF	CLDN4	HLA-DPA1	JAML	CSF2RB	
	6	HLA-DRA	HLA-DRB1	TRBC2	MYADM	TIGIT	TENT5C	CCL4L2	FOSB	NR4A2	IL7R	GZMH	CAVIN1	KRT8	IDO1	HLA-DPA1	HLA-DQA1	
	7	LTB	HLA-DPB1	SRGN	YPEL5	RGS1	CCR6	GZMH	MT-RNR2	ZNF331	RNF213	CCL5	AQP1	PHGR1	LYZ	SAMHD1	CD74	
	8	MS4A1	IGKC	CD3D	PTGER4	DUSP4	Z94721.2	CD8A	MT-CO3	MT-ND5	CHD2	GZMB	CD59	SPINK1	CST3	HLA-DQB1	GPR183	
	9	FOSB	CD79B	SLA	TRBC2	CTLA4	MT-CO3	B2M	SERTAD1	ATF3	ANKRD12	SLAMF7	ECSCR	EPCAM	HLA-DQA1	GPX1	SLC20A1	
	10	H3F3B	HLA-DPA1	NR3C1	TRAC	IL2RA	MAF	TMSB4X	MT-CO2	GNLY	SMCHD1	CCR5	CCN1	MALAT1	CD74	CXCL8	PLAC8	
	rank	Fibro_ADAMI	Fibro_CXCL8	Fibro_CXCL1	Fibro_GPM6	Fibro_KCNN3	Fibro_MYH1	Fibro_NOTCH	Fibro_PI16_n	Mac_M1_n	Mac_M2_n	Mac_SPP1_n	Mast_n	Monocyte_ID	Monocyte_S	NK_gdT_n	Plasma_IgG	Plasma_IgM
	1	ADAMDEC1	C3	POSTN	SPARC	DPT	MYH11	RGS5	CFD	IL1B	C1QA	APOE	TPSB2	BIRC3	S100A8	GNLY	IGHG2	MALAT1
	2	LUM	SERPINE1	CXCL14	CLU	MGP	TAGLN	IGFBP7	SFRP2	CXCL8	SELENOP	C1QA	CPA3	TXN	S100A9	GZMB	IGHG1	NEAT1
	3	CFD	CCDC80	F3	VIM	C7	ACTA2	NOTCH3	DCN	CCL3	CCL3	APOC1	MS4A2	FSCN1	FCN1	KLRD1	JCHAIN	IGHG4
	4	A2M	DCN	COL3A1	SPARCL1	KCNN3	TPM2	ADIRF	MGP	SOD2	C1QB	FTL	GATA2	BASP1	S100A4	PRF1	IGKC	ANKRD36BP2
	5	APOE	CXCL1	COL1A2	MT2A	CCDC80	MYLK	MYL9	PLA2G2A	CCL3L1	LGMN	C1QB	TPSAB1	CCR7	IFI30	GZMH	SSR4	JCHAIN
	6	FBLN1	MEDAG	NBL1	IGFBP4	DCN	TPM1	PDGFRB	CLEC3B	CCL4	CCL4	FCGR3A	CTSG	CDKN1A	AC007192.1	NKG7	MZB1	IGKC
	7	PTGDS	MT2A	TGFB1	S100A6	CXCL12	ACTG2	MCAM	EFEMP1	G0S2	STAB1	FTH1	VWA5A	HLA-DRA	SLC11A1	TRDC	IGHG3	IGLC2
	8	CXCL14	CXCL2	PDGFRA	COL1A2	AL135926.1	MYL9	NR2F2	EXOSC7	IL1RN	RNASE1	CTSD	KIT	TMSB10	TIMP1	HOPX	IGLC2	IGHA1
	9	COL18A1	EMP1	PLAT	IFITM3	THBS4	CALD1	RGS16	C1R	CXCL2	C1QC	HLA-DRB1	HDC	CD83	SERPINA1	GZMA	MT-RNR2	IGHA2
	10	DCN	C1S	SULF1	S100B	FBLN1	DSTN	AL928654.3	CLU	CCL4L2	HSPA1A	CTSB	GLUL	IDO1	LYZ	CCL5	HERPUD1	MT-CO3