

**Supplementary Table 7.** Cell lineage markers used for single cell analysis.

<b>Epithelial marker</b>		<b>Lymphoid marker</b>		<b>Myeloid marker</b>	
EPCAM	Epithelial	PTPRC	Immune cell	C1QA	Macrophage
KRT19	Epithelial	CD3E	T cell	APOE	Macrophage
PAX2	Epithelial	CD3D	T cell	CD68	Macrophage
PAX8	Epithelial	CD3G	T cell	CD163	Macrophage
AKR1B10	Tumor cell	CD4	CD4 T cell	MRC1	Macrophage
SFN	Tumor cell	CD8A	CD8 T cell	CSF1R	Macrophage
AKR1B1	Tumor cell	CD8B	CD8 T cell	CD14	Monocyte
<b>Fibroblast marker</b>		NCAM1	NK	FCN1	Monocyte
ACTA2	Fibroblast	NCR1	NK	VCAN	Monocyte
MYH11	Fibroblast	GNLY	NK	S100A8	Monocyte
COL1A2	Fibroblast	NKG7	NK	S100A9	Monocyte
COL1A1	Fibroblast	MS4A1	B cell	FCGR3A	Monocyte
TAGLN	Fibroblast	CD19	B cell	FCGR3B	Monocyte
PDGFRB	Fibroblast	CD79A	B cell	CD1C	Dendritic cell
<b>Endothelial marker</b>		MZB1	Plasma	FLT3	Dendritic cell
KDR	Endothelial			CLEC4C	Dendritic cell
PECAM1	Endothelial			CLEC9A	Dendritic cell
PLVAP	Endothelial			TPSAB1	Mast
CLDN5	Endothelial			TPSAB2	Mast
VWF	Endothelial			KIT	Mast