

niche	cell_phenotype
cancer	Beta.catenin+ Keratin6+CD8–T CD63+ Keratin6+B H3K9ac+Keratin–positive tumor Beta.catenin+CD4–T Beta.catenin+ Keratin6+Macrophages Beta.catenin+ Keratin6+ p53+Tregs Beta.catenin+ Keratin6+Neutrophils
cancer x fibrotic	Beta.catenin+NK
fibrotic	CD138+NK Mesenchymal–like Endothelial
inflammatory	H3K27me3+CD8–T HLA_Class_1+B HLA.DR+Keratin–positive tumor HLA.DR+ HLA_Class_1+Tumor CD45RO+ HLA.DR+ HLA_Class_1+Mesenchymal–like CD45RO+ H3K27me3+ H3K9ac+ HLA_Class_1+ IDO+Macrophages CD45RO+ HLA.DR+ HLA_Class_1+Endothelial CD45RO+ HLA_Class_1+ Keratin6+DC CD45RO+ H3K27me3+ H3K9ac+ HLA.DR+ HLA_Class_1+Neutrophils
inflammatory x cancer	HLA_Class_1+Keratin–positive tumor H3K9ac+ phospho.S6+Tumor Keratin6+CD4–T phospho.S6+Macrophages H3K27me3+ H3K9ac+ phospho.S6+Tregs IDO+ PD.L1+ phospho.S6+Neutrophils
inflammatory x fibrotic	IDO+Keratin–positive tumor
TLS	HLA.DR+B HLA.DR+CD4–T
TLS x inflammatory	CD45RO+B