

Supplemental table 3. Gene lists and sources for each DC-associated gene set used in the scRNA-seq analysis of CD45⁺ immune cells from the KPC1 shNC/shATG7 syngeneic PDAC tumors (related to Figure 4).

Antigen-presenting genes	Interferon-induced genes	Maturation genes	Migration genes	Regulatory genes
Baldominos, P., et al. 2022	Baldominos, P., et al. 2022	Maier, B., et al. 2020	Maier, B., et al. 2020	Maier, B., et al. 2020
<i>Fscn1</i>	<i>Irf2</i>	<i>Cd40</i>	<i>Ccr7</i>	<i>Cd274</i>
<i>Il12a</i>	<i>Irf7</i>	<i>Cd80</i>	<i>Myo1g</i>	<i>Pdcd1lg2</i>
<i>Il12b</i>	<i>Isg15</i>	<i>Cd86</i>	<i>Cxcl16</i>	<i>Cd200</i>
<i>Cd81</i>	<i>Gbp2</i>	<i>Relb</i>	<i>Adam8</i>	<i>Fas</i>
<i>Psmb10</i>	<i>Gbp5</i>	<i>Cd83</i>	<i>Icam1</i>	<i>Aldh1a2</i>
<i>Tap1</i>	<i>Gbp7</i>		<i>Fascn1</i>	<i>Socs1</i>
<i>Tapbp</i>	<i>Ifi35</i>		<i>Marcks</i>	<i>Socs2</i>
<i>B2m</i>	<i>Ifi44</i>		<i>Marcksl1</i>	
<i>Cd74</i>	<i>Ifi204</i>			
<i>H2-Aa</i>	<i>Ifi205</i>			
<i>Irf7</i>	<i>Ifi211</i>			
<i>Isg15</i>				
<i>Ifi209</i>				

Supplemental table 4. Gene lists and sources for each CD8⁺-T-cell-associated gene set used in the scRNA-seq analysis of CD45⁺ immune cells in the KPC1 shNC/shATG7 syngeneic PDAC tumors (related to Figure 5).

Effector genes	Proliferation genes	Exhaustion genes
Bhatt, D., et al. 2021. Oliveira, G., et al. 2021	Bhatt, D., et al. 2021	Bhatt, D., et al. 2021
<i>Il2</i>	<i>E2f1</i>	<i>Tigit</i>
<i>Fasl</i>	<i>Cdc6</i>	<i>Pdcd1</i>
<i>Tnf</i>	<i>Mki67</i>	<i>Lag3</i>
<i>Tnfrsf10</i>		<i>Havcr2</i>
<i>Prf1</i>		
<i>Gzmb</i>		
<i>Gzma</i>		
<i>Il10</i>		
<i>Ifng</i>		

Supplemental table 5. Gene lists and sources of each gene sets used in the analysis of public PDAC patient scRNA-seq data (related to Figure 7).

Antigen-presenting genes	Interferon-induced genes	Exhaustion genes
Baldominos, P., et al. 2022	Baldominos, P., et al. 2022	Bhatt, D., et al. 2021
<i>ISG15</i>	<i>IFI44</i>	<i>TIGIT</i>
<i>IRF7</i>	<i>IFI35</i>	<i>PDCD1</i>
<i>HLA-C</i>	<i>GBP7</i>	<i>HAVCR2</i>
<i>HLA-DRB1</i>	<i>GBP5</i>	<i>LAG3</i>
<i>HLA-DRA</i>	<i>GBP2</i>	
<i>HLA-E</i>	<i>ISG15</i>	
<i>HLA-A</i>	<i>IRF7</i>	
<i>B2M</i>	<i>IRF2</i>	
<i>TAPBP</i>		
<i>TAP1</i>		
<i>PSMB10</i>		
<i>CD81</i>		
<i>IL12A</i>		
<i>FSCN1</i>		

Supplemental table 6. Lists of autophagy-related genes used to calculate the autophagy signature scores of ductal cells (related to Figure 7).

Autophagy related genes
WP_AUTOPHAGY (gsea-msigdb.org)
<i>ATG14</i>
<i>MTOR</i>
<i>WIPI2</i>
<i>PIK3C3</i>
<i>PRKAG2</i>
<i>PIK3C3</i>
<i>PRKAG3</i>
<i>ATG16L1</i>
<i>PRKAA1</i>
<i>PRKAB1</i>
<i>PRKAB2</i>
<i>PRKAG1</i>
<i>RPTOR</i>
<i>ATG101</i>
<i>MLST8</i>
<i>ATG3</i>
<i>DEPTOR</i>
<i>UVRAG</i>
<i>ATG9A</i>
<i>MAP1LC3B</i>
<i>ULK1</i>
<i>AKT1S1</i>
<i>BECN1</i>
<i>ATG12</i>
<i>ATG5</i>
<i>ATG13</i>
<i>RB1CC1</i>

Supplemental table 7. Autophagy signature scores for each sample from the public PDAC patient scRNA-seq

dataset. Sample (T : PDAC, N : Normal pancreas)	Autophagy signature score	Autophagy signature score	
		Low (<median)	High (>median)
T1	3.685	T1	T4
T2	3.828	T2	T7
T3	3.939	T3	T10
T4	4.439	T5	T12
T5	3.262	T6	T14
T6	3.965	T8	T15
T7	4.186	T9	T17
T8	3.668	T11	T18
T9	3.576	T13	T21
T10	4.311	T16	T22
T11	3.729	T19	T23
T12	4.238	T20	
T13	3.685	T24	
T14	4.903		
T15	4.09		
T16	3.903		
T17	4.692		
T18	4.28		
T19	3.971		
T20	3.784		
T21	4.336		
T22	4.313		
T23	4.432		
T24	3.798		
N1	3.244		
N2	3.247		
N3	2.145		
N4	3.889		
N5	2.927		
N7	2.65		
N8	3.276		

N9	3.313		
N10	2.968		
N11	2.268		