

Supplemental Tables

Supplemental Table 1: Tum-PD-L1%, Tum-B7-H3%, CD8 density, CD4 density, CD8-PD-1%, CD4-PD-1%, and TIL-PD-L1%^a by immune status

Immune Status		Tum-PD-L1 %	Tum-B7-H3 %	CD8 Density	CD4 Density	CD8-PD-1%	CD4-PD-1%	TIL-PD-L1%
All Patients N=66	Mean	10.0	44.6	45.6	37.6	19.5	11.05	30.9
	Median	0	40.0	40.0	30.0	20.0	10.0	25.0
	Minimum	0	0	0	0	0	0	0
	Maximum	80.0	100.0	100.0	90.0	60.0	30.0	90.0
Immunocompetent N=42	Mean	11.4	51.7	43.5	37.8	18.9	10.85	34.4
	Median	0	60.0	40.0	30.0	12.5	10.0	30.0
	Minimum	0	0	0	0	0	0	0
	Maximum	80.0	100.0	100.0	80.0	60.0	30.0	90.0
Immunosuppressed N=24	Mean	7.5	32.9	49.4	37.3	20.4	11.25	24.5
	Median	45.0	27.5	45.0	35.0	20.0	10.0	0
	Minimum	0	0	5.0	5.0	0	0	0
	Maximum	60.0	100.0	100.0	90.0	45.0	30.0	90.0
HIV N=8	Mean	0	16.3	70.0	37.5	25.6	10.6	30.6
	Median	0	2.5	75.0	35.0	30.0	10.0	27.5
	Minimum	0	0	40.0	10.0	5.0	0	0
	Maximum	0	85.0	100.0	70.0	45.0	20.0	80.0
Other Immunosuppressed^b N=16	Mean	11.3	40.3	39.1	37.2	17.8	11.6	21.3

	Median	0	35.0	25.0	35.0	20.0	10.0	0
	Minimum	0	0	5.0	5.0	0	0	0
	Maximum	60.0	100.0	90.0	90.0	40.0	30.0	90.0

^aTum-PD-L1% = percentage of tumor cells expressing PD-L1. Tum-B7-H3% = percentage of tumor cells expressing B7-H3. CD8 Density = the percentage of peritumoral stroma infiltrated by CD8 positive lymphocytes. CD4 Density = the percentage of peritumoral stroma infiltrated by CD4 positive lymphocytes. CD8-PD-1% = the percentage of CD8-positive tumor infiltrating lymphocytes that which expressed PD-1. CD4-PD-1% - the percentage of CD4-positive tumor infiltrating lymphocytes that which expressed PD-1. TII-PD-L1% = percentage of tumor infiltrating lymphocytes that express PD-L1. ^bOther immunosuppressed includes 12 organ transplant and 4 of other etiology (CLL, Inflammatory Bowel Disease on immunosuppression)

Supplemental Table 2: Evaluation of Lymph-PD-L1%, Lymph-B7-H3%, CD8 Density, CD8-PD-1%^a in Organ transplant graft and tumor samples

Patient	Specimen	Acute Rejection (Y/N)	IC-PD-L1%	CD8-PD-1%	IC-B7-H3%	Tum-B7-H3%	CD8 Density	Tum-PD-L1%
1	Tumor		0	5		25	10	0
	Renal Graft	N	10	1	0		80	
	Renal Graft	Y	60	10	0		80	
2	Tumor		30	30		5	70	0
	Renal Graft	N	10	5	0		80	
3	Tumor		0	10		100	20	0
	Lung graft	Y	10	10	0		10	
	Lung graft	N	0	5	0		40	
4	Tumor		30			75	80	10
	Lung graft	N	0	0	0		30	
	Lung graft	Y	0	5	0		40	
5	Tumor		0	10		60	10	30
	Lung graft	N	0	5	0		20	
	Lung graft	Y	0	10	0		20	
6	Tumor		0	25		10	5	0
	Lung graft	Y	0	20	0		20	
	Lung graft	N	0	5	0		30	
7	Tumor		10	20		30	30	0
	Renal graft	N	0	0	0		10	
	Renal graft	Y	10	20	0		80	
8	Tumor		5	10		40	90	0
	Heart graft	N	0	10	0		20	

^aIC-PD-L1% = percentage of immune cells in graft or tumor infiltrating immune cells expressing PD-L1. CD8-PD-1% = the percentage of CD8-positive tumor infiltrating lymphocytes or CD8 positive lymphocytes in the graft that expressed PD-1. IC-B7-H3% = percentage of lymphocytes in graft expressing B7-H3. Tum-B7-H3 = the percentage of tumor cells expressing B7-H3. CD8 Density = the percentage of peritumoral stroma infiltrated by CD8 positive lymphocytes or CD8 positive lymphocytes in the graft. Tum-PD-L1= the percentage of tumor cells expressing PD-L1.