

Supplementary Data Table S2. Sample counts by tumor type.

Tumor Type	Sample Number	PD-L1 Stained Sample Number	HLA-I LOH Prevalence (%)
thymic	136	24	41.9
cervical squamous cell carcinoma	336	54	39.0
pancreatic islet cell	254	38	38.2
adrenocortical carcinoma	172	28	36.0
anal squamous cell carcinoma	236	39	36.0
penile squamous cell carcinoma	63	13	31.7
lung squamous cell carcinoma	2666	842	31.3
unknown primary squamous cell carcinoma	560	92	28.4
head and neck squamous cell carcinoma	1134	180	27.2
skin squamous cell carcinoma	256	46	25.4
esophageal	1967	340	24.5
vaginal squamous cell carcinoma	139	25	24.5
rectal squamous cell carcinoma	54	6	24.1
pancreatic	4049	527	23.4
renal	1371	228	23.0
esophageal squamous cell carcinoma	324	74	21.3
cervical	262	45	21.0
non-small cell lung carcinoma (NSCLC)	13240	3102	20.9
small intestine	459	62	20.9
fallopian tube	377	50	18.8
biliary	749	120	18.7
urinary	199	40	18.6
bone sarcoma	108	16	18.5
gastric	1207	98	18.4
head and neck neuroendocrine	80	12	17.5
germ cell	186	26	16.7
peritoneal	292	43	16.4
unknown primary	5733	905	16.3
cholangiocarcinoma	1542	240	16.0
bladder	1299	178	15.7
ovarian	4996	661	15.7
thyroid	670	82	15.7
colorectal	10682	1410	15.3
appendiceal	316	51	13.6
breast	9686	1139	13.2
unknown primary neuroendocrine	644	92	12.9
soft tissue sarcoma	638	66	12.4
mesothelioma	404	70	12.4
gastrointestinal neuroendocrine	269	53	12.3
skin (other)	174	34	12.1
salivary gland	483	65	11.4
non-glioma	716	40	10.6
head and neck	231	37	10.4
carcinoid	249	45	9.2
endometrial	2325	347	9.1
glioma (non-GBM)	1519	86	8.8
gastrointestinal stromal tumor	442	63	8.1
glioblastoma (GBM)	2865	219	8.1
adenoid cystic carcinoma	474	61	6.5
cutaneous melanoma	1020	174	6.1
small cell	1021	181	5.9
hepatocellular	570	88	5.8
prostate	2774	482	5.8
uterine	416	60	5.5
non-cutaneous melanoma	222	37	5.0
Wilms tumor	54	7	3.7
prostate neuroendocrine	110	24	3.6
Merkel cell carcinoma	162	13	3.1
adrenal gland neuroendocrine	82	11	2.4