

Supplementary table 3 Summary of additional characteristics of eligible studies

Study	Sample size		sPD-L1 level		sPD-L1 detection			Median follow-up, months	Effect size	
	Patient cohort	Control cohort	Patient cohort	Control cohort	ELISA Kit (Manufacturer)	Minimum detectable concentration	Quantitative range		HR source	HR method
Zhang, 2015	109	65	0.723±0.081 ng/ml	0.565±0.048 ng/ml	ab156361 (Beijing Keyingmei Science and Technology Ltd.)	NM	NM	27.6 (range: 6.5-38.3)	Estimated	Uni
Zhao, 2017	126	NA	107.2 pg/ml	NA	PDCD1LG1 ELISA kit (USCN Life Science)	57 pg/ml	NM	25	Reported	Multi
Okuma, 2017	96	NA	6.95±2.90 ng/ml	NA	PD-L1 ELISA kit (Cloud-Clone Corp.)	0.117 ng/ml	0.312-20 ng/ml	NM	Reported	Multi
Vecchiarelli, 2018	56	16	42.21 pg/ml (range: 12.00-143.49)	37.81 pg/ml (range: 9.73-90.21)	Human PD-L1/CD274 ELISA kit (CUSABIO)	NM	NM	14.7 (range: 2-36)	Estimated	Uni
Okuma, 2018	39	NA	2.24 ng/ml	NA	PDCD1LG1 ELISA kit (Cloud-Clone Corp.)	0.117 ng/ml	0.312-20 ng/ml	NM	Estimated	Uni
Costantini, 2018	33	NA	39.81 pg/ml (IQR: 29.75-59.21)	NA	ab214565 Human PD-L1 [28-8] ELISA Kit (Abcam)	NM	NM	16.3 (IQR 11.7-21.1)	Estimated	Uni
Jin, 2018	250	250	7.0±3.0 ng/ml	1.2±0.6 ng/ml	Human/Cynomolgus Monkey PD-L1/B7H1 Quantikine ELISA Kit (R&D System)	4.52 pg/ml	25.0-1600 pg/ml	12	Reported	Multi
Tiako Meyo, 2020	51	NA	0.16 ng/ml (IQR: 0.03-0.44)	NA	SEA788Hu ELISA Kit (Cloud-Clone Corp.)	0.057 ng/ml	0.156-10 ng/ml	804 days (range: 553-1112)	Reported	Uni
Castello, 2020	20	NA	27.22 pg/ml (range: 11.23-61.27)	NA	PD-L1/CD274 ELISA kit (R&D System)	NM	NM	10.3 (range: 2-29)	Reported	Uni
Mazzaschi, 2020	109	NA	84.07±5.04 pg/ml	NA	Human/Cynomolgus Monkey PD-L1/B7H1 Quantikine ELISA Kit (R&D System)	4.52 pg/ml	25.0-1600 pg/ml	17.3	Reported	Uni
Jia, 2020	66	NA	568.19 pg/ml (range: 344.96-1889.49)	NA	R-plex Human PD-L1 kit (Meso Scale Discovery)	NM	NM	NM	Reported	Multi
Murakami, 2020	233	NA	67.7 pg/ml (range: 25-223)	NA	Human/Cynomolgus Monkey PD-L1/B7H1 Quantikine ELISA Kit (R&D System)	4.52 pg/ml	25.0-1600 pg/ml	NM	Reported	Multi

ELISA: enzyme-linked immunosorbent assay; sPD-L1: soluble programmed cell death ligand 1; IQR: interquartile range; HR: hazard ratio; Uni: univariate analysis; Multi: multivariate analysis; NM: not mentioned; NA: not applicable.