

S4 Table. Multivariable Cox proportional hazard model of continuous expression level for BRFS, DPFS, and OS

	BRFS (n=162, event=58)		DPFS (n=162, event=48)		OS (n=162, event=19)	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
CD8	0.995 (0.988-1.003)	0.227	0.988 (0.978-0.998)	0.024	0.993 (0.979-1.007)	0.315
Cyclin D1	1.002 (1.000-1.004)	0.081	1.003 (1.001-1.005)	0.021	1.001 (0.997-1.005)	0.583
E-cadherin	0.998 (0.996-0.999)	0.046	0.998 (0.996-1.000)	0.097	0.997 (0.993-1.001)	0.114
HMWCK	1.001 (0.999-1.003)	0.389	0.997 (0.994-0.999)	0.012	0.997 (0.993-1.001)	0.134
PD-L1	0.338 (0.000-inf)	0.987	1.042 (0.990-1.097)	0.116	1.122 (1.059-1.189)	< 0.001

Adjusted for intravesical instillation in multivariable BRFS model. Adjusted for intravesical instillation and pTstage in multivariable progression-free survival model. Adjusted for pTstage in multivariable OS model. BRFS, bladder recurrence-free survival; DPFS, disease progression-free survival; OS, overall survival; HR, hazard ratio; CI, confidence interval; HMWCK, high-molecular-weight heparin; PD-L1, programmed cell death 1 ligand.