Table 3 Performance of the dichotomized optimal quantiles, ccMSIs, and percentages of Ki-67 positive cells in Cox model fitted to the external validation cohort

			Univariate Cox model				**Multivariable Cox model**			
Marker	Quantile	Cutoff*	Optimal quantile				Optimal quantile			
			HR	95% Confidence Limits		p-value	HR	95% Confidence Limits		p-value
Ki-67	30	607.1	2.409	0.894	6.494	0.082	2.720	0.990	7.468	0.052
PCNA	5	1065.6	1.323	0.460	3.804	0.603	1.737	0.524	5.757	0.366
PD-L2	45	3938.5	2.331	1.121	4.846	0.023	2.110	0.977	4.557	0.057
PR	55	1052.6	0.431	0.188	0.985	0.046	0.447	0.187	1.068	0.070
		Cutoff*	ccMSI				ccMSI			
			HR	95% Confidence Limits		p-value	HR	95% Confidence Limits		p-value
Ki-67		676.0	1.454	0.673	3.143	0.341	1.101	0.484	2.506	0.819
PCNA		8313.6	1.218	0.593	2.501	0.591	1.366	0.653	2.857	0.407
PD-L2		4309.2	1.607	0.798	3.234	0.184	1.375	0.664	2.846	0.391
PR		1119.0	0.402	0.179	0.903	0.027	0.406	0.171	0.961	0.040
		Cutoff**	Ki-67 positive cells (%)				Ki-67 positive cells (%)			
			HR	95% Confidence Limits		p-value	HR	95% Confidence Limits		p-value
Ki-67		5	0.596	0.291	1.220	0.157	0.598	0.287	1.247	0.171
Ki-67		15	0.754	0.290	1.959	0.563	0.693	0.264	1.818	0.456
Ki-67		20	0.859	0.301	2.451	0.776	0.718	0.246	2.095	0.545
Ki-67		30	1.198	0.163	8.791	0.859	1.149	0.145	9.099	0.895

*Apparent cutoff based on the entire screening cohort without any bootstrap procedure

** Prespecified cutoffs for percentages of Ki-67 positive cells