

Supplementary Table S2. Antibodies and procedures used for multiplex immunohisto-chemical staining

Position	Antibody	Clone/Company	Dilution	Incubation	AG ¹ retrieval	TSA ³ dye
Panel 1						
1	CD4	PerkinElmer	1:50	30 min	AR ² 9	520
2	CD8	PerkinElmer	1:100	30 min	AR 9	570
3	CD20	PerkinElmer	1:200	30 min	AR 6	540
4	FoxP3	PerkinElmer	1:400	30 min	AR 6	620
5	CD68	PerkinElmer	1:1000	30 min	AR 6	650
6	SYN	SP11/Abcam	1:1000	Over night	AR 6	690
Panel 2						
1	CD27	EPR8569/Abcam	1:2000	30 min	AR 9	520
2	GZMB	ab4059/Abcam	1:100	30 min	AR 6	570
3	TCF7	C63D9/Cell Signaling	1:100	30 min	AR 6	540
4	CD45RA	4KB5/Santa Cruz	1:500	30 min	AR 6	620
5	CD45RO	UCHL1/Novus Bio.	1:1000	30 min	AR 9	650
6	SYN	SP11/Abcam	1:1000	Over night	AR 6	690

¹AG: antigen; ²AR: antigen retrieval buffer with pH 6 (AR6) and pH 9 (AR9); SYN: synaptophysin; ³TSA: Tyramide Signal Amplification

Supplementary Table S3. Markers for detection/quantification of immune cell types in MCC tissue.

<i>Cell type</i>	Used markers for detection/quantification
<i>Leukocytes</i>	CD45RA(+) or CD45RO(+)
<i>Regulatory T cells</i>	CD4(+)FoxP3(+)
<i>Central memory T cells</i>	CD27(+)TCF1(+)CD45RO(+)
<i>Effector T cells</i>	GZMB(+)CD45RA(+)
<i>Monocytes/macrophages</i>	CD68(+)
<i>B cells</i>	CD20(+)